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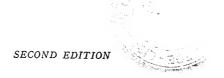
A HANDBOOK OF ECONOMICS

(PRODUCTION, CONSUMPTION AND VALUE)

BY

JOHN A. TODD, M.A. (Oxon.), B.L. (GLASGOW)

PRINCIPAL OF THE CITY SCHOOL OF COMMERCE, LIVERPOOL



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PREFACE TO SECOND EDITION

This book, which was written in 1924, grew out of part of the writer's *Political Economy for Egyptian Students*, first printed in 1909. It was an attempt to set down in as simple form as possible for non-professional students, bankers, accountants, secretaries, and business men generally, what was then the accepted theory of the economics of production, consumption and value under the competitive system as set forth in the works of the greatest English economist of modern times—Alfred Marshall.

But thirty years, or even fifteen years, is a very long time, especially in a world that is changing so rapidly as this has been since the War, and now it seems as if all these accepted theories had been completely set aside. England has become a protectionist country with all the zeal of a new convert. We have gone off the Gold Standard, we have developed a system of combines, amalgamations and "rationalisation" to an extent which virtually amounts to monopoly in many of our large industries. A system of subsidies on the one hand to particular industries and of restriction of production and price fixing on the other has grown to such an extent that one is tempted to say that there is nothing left of the old system of free competition and free trade. As the result of all this the old idea that the interests of the consumer were the most important consideration has been almost entirely set aside. That was partly the result of the War, when the old conditions of our economic life were entirely upset. Before the War we had become accustomed to a system of ample supplies of all kinds of commodities, when practically the only limit to supply was the price offered. But during the War all this was changed and we had to adapt ourselves to a new state of affairs, the economy of scarcity, when as the result of restrictions of all kinds the supply of commodities was greatly limited and prices in so far as they were not controlled by the Government, were just what the producer thought fit to charge. After the War this new mentality developed into extreme economic nationalism in almost every country. Every nation was trying to keep its own trade to itself and to exclude competition, and the interests of the consumer became the last consideration instead of the first.

Under such conditions it behoves an economist who is coming near the end of his teaching life to think back and to consider how much of what he was taught and has been teaching ever since is still true. In all this new world of "economic planning" is there anything left of the old system of economic freedom and individual enterprise? In revising this book for a new edition, after several previous reprintings which only allowed of the minimum of revision and bringing up to date, the writer has endeavoured to keep in view this major problem of modern economics.

For the first time since the original publication new editions of this book and of its other half, the Mechanism of Exchange (published in 1917), happen to be called for at the same time. The opportunity has therefore been taken to rearrange the division of the whole subject between the two books. Chapters on the "History of Exchange" and "Marketing" and also the sections dealing with the Theory of International Trade and the Balance of Trade have been transferred from the Mechanism of Exchange to this book, which incidentally involves a little duplication. To make room for this, considerable sections of the original edition (including the statistics) have been omitted and others very much condensed, while a new chapter has been added summarising the main developments of the movement to restrict competition in this country since the War. The result is that this edition is a very different book from its predecessors and the latter part of it has been entirely reset.

An elementary text-book should not be overburdened with acknowledgments or references. After forty years of teaching it is often difficult to remember whether the exact form of a statement is one's own or unconsciously borrowed. In any case frequent references to authorities are worse than useless to the elementary student. The writer has therefore confined himself to giving a very few references which may really lead to further reading, but the fact must be faced that students of the kind for whom this book is meant are either unwilling or unable to read much outside of their text-book. It is something to be thankful for if they will even read a serious newspaper, and in these days when we are making history all the time and in a very special sense "living economics", the daily paper is the most essential guide to the science of everyday life.

JOHN A. TODD

LIVERPOOL, June, 1939.

TO THE

MEMORY OF

THREE BALLIOL MEN

ADAM SMITH (1723-1790)

SNELL EXHIBITIONER, 1740-1746

ALFRED MARSHALL (1842-1924)

FELLOW AND LECTURER IN POLITICAL ECONOMY, 1883-1884

ARTHUR LIONEL SMITH (1850-1924)
MASTER, 1916-1924



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CHAPTER I

INTRODUCTORY

What is Economics?—Old definitions v. new—Scope of Economics: its relation to other sciences—Economic laws and methods—Economics v. Political Economy.

At first sight it may seem strange that although Economics has been taught as a science or preached as a gospel for more than 150 years, its teachers do not seem even yet to have agreed upon a definition of the science, nor even upon its name, for the old name of Political Economy and the new name of Economics or Economic Science seem still to be used indifferently.

The divergence of the definitions can best be brought out by quoting a few of them from standard authors:—

Political Economy is "the science of the laws which regulate the old production, accumulation, distribution, and consumption of those articles or products that are necessarily useful or agreeable to man, and possess exchangeable value". It is "the science of values". "Its object is to point out the means by which the industry of man may be rendered most productive of wealth, to ascertain the circumstances most favourable to its accumulation, the proportions in which it is divided, and the mode in which it may be most advantageously consumed "(J. R. McCulloch, *Principles of Political Economy*, 1825).

"Writers on Political Economy profess to teach or to investigate the nature of wealth and the laws of its production and distribution, including directly or remotely the operation of all the causes by which the condition of mankind, or of any society of human beings, in respect to this universal object of human desire, is made prosperous or the reverse. Not that any treatise on Political Economy can discuss or even enumerate all these causes, but it undertakes to set forth as much

Old definitions as is known of the laws and principles according to which they operate"

(John Stuart Mill, Principles of Political Economy, 1847).

"Political Economy or Economics is the name of that part of knowledge which relates to wealth. Political Economy has to do with no other subject whatever than wealth" (F. A. Walker, *Political Economy*, 1883).

Compare with these the following definitions, or rather suggestions leading up to a definition, by Marshall:—

Marshall's.

"Political Economy or Economics is a study of man's actions in the ordinary business of life. It enquires how he gets his income and how

he uses it " (Economics of Industry).

"It examines that part of individual and social action which is most closely connected with the attainment and with the use of the material requisites of well-being. Thus it is on the one side a study of wealth and on the other, and more important side, a part of the study of man," or, again, it is "that part of the social science of man's action in society that deals with his efforts to supply his wants, in so far as the efforts and wants are capable of being measured in terms of wealth, or its general representative, money "(Principles of Economics).

The difference. The difference between the definitions of the older economists and the ideas of Marshall is more than a mere question of words; it marks the whole growth of Economics from Mill to Marshall. What it means is that Economics is not a science of material things, but a study of human nature in regard to these things. Economics is the science of the motives or notions of value which actuate men in the acquisition and use of wealth. It is the science of everyday life.

This first attempt at a definition raises three questions: (1) What do we mean by science? (2) Is it possible to apply scientific methods to a subject matter so complex and variable as human nature? and (3) What need is there for such study of a subject so apparently simple as everyday life?

(1) What is Science? The word of course means simply knowledge, but it may be described as "knowledge with a purpose". A science is a systematic body of knowledge regarding a certain subject, a collection of the general principles or leading truths relating to a particular branch of knowledge, arranged in

systematic order. It seeks to discover the necessary relations connecting the facts with which it deals, the general laws which show what things will happen under certain circumstances; its object is to apply these laws in future to produce certain desired results.

(2) A science requires a definite subject matter capable of methodical treatment, so as to arrive at universal laws or general principles governing the facts with which it deals. The subject Subject matter of the science of Economics is (elliptically) wealth; and Economics. wealth means things that satisfy human wants. Economics studies the nature of human wants, and the efforts which men make to satisfy them. It is the science of human efforts to supply human wants. The laws of Economics are the laws of supply and demand, that is to say, the rules which govern (a) the cost of production of goods, and (b) the prices which men are willing to pay for them.

If all men were like Robinson Crusoe, living alone on separate islands by their own individual efforts, it would obviously be impossible to lay down any such laws as to the nature of their wants or the efforts which they would make to supply them. Each man would be a law unto himself, with his own ideas of the relative value of different things, which would vary not only according to his own particular idiosyncrasies, but also with his own special circumstances and peculiar physical needs as to food, clothing, and housing, and all of these would depend largely on the climate and resources of his particular island. But that is not how the world lives to-day. Even Robinson Crusoe found things much better after the arrival of Man Friday, and in modern life men live in communities; they are all individuals in a huge social organisation, all dependent on Social each other's efforts to supply their wants. In other words, man is a social animal; he naturally seeks the society of his fellowmen, in the first place for the pleasure of their society, and in the second place to have their assistance in supplying his wants. Families, tribes, towns, nations, empires are all associations of individuals for mutual pleasure, protection, and assistance. In

such a community every man's efforts are directed to supplying the wants of others as well as his own, for every man depends on the efforts of others to help in supplying his wants. The relations which thus arise between men, as to their wants and their efforts, are the subject of our science. It is therefore a social science, because it deals with the actions of men not merely as individuals, but as members of an organised society.

Now among great numbers of people similarity of wants

and efforts is manifested, and similarity is the basis of scientific law. Thus, in logic, the syllogism is based on two premisses. each of which is an equation or statement of similarity between two things, and from these premisses a conclusion is drawn; but this brings us to the root difficulty of the whole matter. The statement that one thing is "like" another implies some means of measurement and comparison of the two things, and how is it possible to measure human wants or human efforts? There is only one method available. It is impossible to tell how much any man wants any particular thing, such as a pound of tobacco, or how much a particular man dislikes to undergo the exertion or discomfort of doing a certain piece of work, such as digging fifty square yards of garden on a hot day; but it is comparatively easy to find out how much that man is prepared to bay for the tobacco, or what wage we must pay the gardener to induce him to do that piece of digging. If it is found that the gardener's wage is 10s. a day, and he buys 4 oz. of tobacco each week at 10d. per oz. (which is 3s. 4d. a week), then it may safely be argued that he would rather do a day's work than go without tobacco for three weeks. In the same way it will be found that nearly everything involves directly or indirectly some question of payment. We have to pay for most things we require; we have to be paid for most things we do. Thus money becomes at least a rough-and-ready means of measurement of the comparative strength of our desires for particular commodities, or of our unwillingness to undergo certain efforts or "discommodities"; and by this means of measurement it is possible to find out whether one man desires a certain commodity more

Money measures human motives.

than another commodity, or more than another man, or whether one man requires to be paid more for his labour than another, or more for one job than another. Here then is a standard of measurement which makes a rough comparison possible, and provides a method by which we may arrive at certain similarities; upon these we may gradually build up enough knowledge of many men to justify a general statement about the relative intensity of their desires for different things.

This method, however, can only be applied to those motives What or notions of value which can be measured by a money payment. measurable Thus Economics becomes the science of measurable motives, and as the means of measurement is price, it becomes by implication the Science of Prices, or the Theory of Values.

The restriction of the scope of Economics to those motives which are measurable in terms of money seems at first sight

very narrow; but as a matter of fact the motives which can Most things be measured by prices are very numerous and very important. a matter of money. They include almost all the motives which actuate men in the ordinary affairs of everyday life, and not merely in "business" in the narrow sense of the word. It must be remembered that the things men pay or are paid for include a great deal more than those which they buy or sell in a shop. In particular, they include an enormous number of services rendered by people of all kinds, and without which under modern conditions one could not possibly live. Man's wants include a great deal more than food, clothing, and housing. To take only the question of housing, it is not enough that he should have a house to live in. He must also have some one to keep his house for him, to cook his meals, make his bed, and so on, if he himself has to spend his time in earning his living outside the house. The running of the house also

includes many services which he does not think of as things to be paid for, such as gas, water, and electric supplies and drainage. Outside the house he is supplied with many public services clean and well-paved streets to walk on, provided by the municipality at a price in the form of rates, a tramcar to take him to his business, at a price in the form of a ticket, and so on. He

Payment for requires policemen to protect his property, soldiers and sailors to protect his country, a postman to deliver his letters, and an infinitude of other services of all kinds which must be paid for just as surely as his lunch in town, though the payment may be disguised in many different forms. Again, what is it all for? It is in order that he may be able to render certain services, for which he is paid. If he is a joiner making tables, or a shoemaker producing boots, he knows what he is being paid for, and how much he is paid for the table or the pair of boots. But if he is a machine tender in a boot factory, and his work consists mainly of watching a machine which punches holes in a piece of leather, he knows that that piece of leather will some day form part of a pair of boots, but he has no idea what part of the price of the boots is his payment for the particular job of punching these holes. Again, if he is a corporation tramway official, it probably does not occur to him that he is being paid a fraction of the price of each tramway ticket for his share in maintaining the organisation of the service.

Thus our whole life is made up of paying and being paid; and a science that covers every transaction which involves a payment is not only an enormously wide science, but an extraordinarily important and interesting one. The fact is that living in a huge co-operative society, which is what the modern social organisation really is, men are all involved, whether they realise it or not, in social relations to each other, which ought to produce a sense of responsibility. We ought to feel that if the workers in a certain trade or service are underpaid, it is we, the consumers, who are underpaying them, and that equally whether they are corporation servants or members of some other public utility service such as a railway, or the women who make shirts for us in a clothing factory. It is these social relations which are the subject matter of Economics; and to say that such a science is sordid because it looks primarily at the money value of things is simply to misunderstand the whole thing. When Carlyle wrote so scathingly of the "cash payment for the sole nexus" 1

Social relations.

¹ Past and Present, I.-vi. and II.-vi.

between employer and employed, he was only emphasising the need of recognition of some moral responsibility beyond the cash payment. That moral responsibility as such is not the business of Economics; but no human being, who has realised the social relations which these cash payments mean, could be content to accept the cash payment as the beginning and end of the whole thing. Thus the economist must remember that his particular subject is only part of a great all-embracing social science which includes many other departments as well as Economics.

This limitation or rather demarcation of the scope of Demarca-Economics is essential to its efficiency in its proper place, and Economics, it has important effects on the methods of Economics and the nature of its laws. The duty of the economist is to inquire into facts, not in the first place to discuss the right or wrong of things. In the course of his inquiries he is bound to come across many things of which he will instinctively disapprove; but if he allows himself to be drawn into the discussion of these moral or ethical questions his inquiry as an economist is likely to suffer. As a matter of fact, the distinction between the economic and the ethical aspects of a question can never be completely enforced. But the economist must be constantly trying to remember on which side of the fence he is for the moment, and if, when he is on the economic side trying to find out the facts, he can forget his feelings on the subject, the result of his inquiry into the facts is likely to be much more reliable.

This danger of the scientific accuracy of the economist's conclusions being spoilt by moral or political bias is well illustrated by the disfavour into which Economics fell during the nineteenth century, through its coming to be identified in the minds of the working classes with class interests. They felt, and Danger of with some reason, that the economists were always on the side of the capitalists and employers. The doctrines of Malthus as applied to the position of the working classes by his successors, and especially by Mill in the theory of the Fixed Wages Fund, really justified the name of the Dismal Science, which still clung

to Economics right up to the beginning of the present century. Any young student of Economics to-day, taking Mill as his introduction to the subject, can hardly fail to receive the impression that Political Economy in those days was really the Science of Wealth in the worst sense, for throughout the whole book runs what many would now regard as the deification of Capital. Considering the times in which Mill lived, when the wonderful wealth-producing power of machinery was new, it would not be fair to blame Mill and his contemporaries for being a little blinded by it; but it is not surprising that Karl Marx, looking at the other side of the picture, was driven to the conclusion that there must be something wrong with all these complacent theories, or else that the only thing for the proletariat to do was to smash the whole capitalist system by a class war and set up something else in its place. The economist as such, therefore, must not take sides; but as a man his Economics ought to enable him to take sides intelligently. Perhaps the matter may best be put in this way that it is the duty of the economist in the first place to find out the facts, then of the social reformer to propose remedies, and again of the economist to consider the probable economic effects of the proposed reform and whether it is likely to produce the desired result. Too often it is the ungrateful task of the economist to prove, as in the case of the Poor Law abuses before 1834, and to a less extent to-day, that the benevolent intentions of the reformers have had most undesirable results. Economics, therefore, cannot be a complete science. It is only one of many branches of sociology, but as in other sciences, specialisation, which is the meaning of division of labour, is particularly necessary in social questions. Again, as in other sciences. however, the economist must keep in the closest touch with all the other branches which go to make up the complete social science.

Economics and social reform.

Nature of

This limitation of the scope of Economics also has an important effect on the nature of economic laws. In the first place it is necessary to be clear as to what law means, or rather how many

different kinds of law there are. There are, for example, various (1) moral laws like the Ten Commandments. Many of these have been embodied in (2) parliamentary laws, civil or criminal, while others have not. Finally, there are (3) physical laws of nature. Perhaps the distinction may be best put in this way: a moral law means that one ought not to do certain things; a legal enactment says, "You must not do that thing, or the courts will interfere to prevent or punish you"; while a physical or natural law says, "You cannot do this thing without certain physical results happening".

Under which of these categories are we to place economic laws, such as the laws of supply and demand? In the first place, they are obviously not moral laws; they are not precepts, but uniformities or statements of fact. The form in which they would be stated is not, for example, "Men ought to buy in the cheapest market", but "Most men do". Second, they are not legal commands or prohibitions, indeed sometimes these latter are said to be interfering with the laws of supply and demand. During the War the Defence of the Realm Act did so very seriously when, for example, it forbade trading with the enemy, or charging more than sixpence for a pound of sugar. Third, economic laws are "psychical" not physical. They deal with what men are likely to do, not with the laws of inanimate nature. It will be shown later on that some of the so-called economic laws which are found in text-books really break this rule; the Law of Diminishing Return, for example, which is the foundation of the Ricardian Theory of Rent, is really a natural Only statelaw of agriculture. Economic laws are, strictly speaking, "only ments of tendencies. those statements by which it is expressed or implied that a certain line of conduct will be adopted by a social group ".1 Finally, economic laws are not exact, like the laws of the physical sciences. They do not state that all men do so and so, but merely that most men would. Take, for example, the so-called law that men will always buy in the cheapest market. That is

¹ Pierson, Principles of Economics, vol. i. p. 19.

not always true; some people prefer to buy in an expensive and fashionable shop, simply because it is fashionable and expensive. Economic laws do not "assume the form of precise quantitative statement";1 it is easy, for example, to say that a rise in the price of a commodity will tend to check the consumption, but it is never possible to say exactly how much the consumption will be reduced by, say, a ten per cent increase of the price. Thus an economic law is merely a statement of a tendency, an indication of what is likely to happen, but no "exact numerical expression is found for the degree of force with which the tendency in question operates". 2 But while all this is true, these economic laws are sufficiently general and often enough true to be very valuable; and as the questions upon which Economics desires to lay down the law usually affect very large numbers of people, the exceptions may be so small a part of the total that they merely serve to prove the rule.

Induction and deduction.

In following out his inquiry, the economist may adopt two different methods-the inductive and the deductive. Induction, or the historical method, means the discovery and comparison of many individual instances with a view to finding certain points of similarity which may gradually be built up into a general statement or law. Deduction is the method by which such laws or general principles are applied to other facts or new circumstances, so as to arrive at new conclusions. Each of these methods has its advantages. The inductive or historical method, which includes statistics, is necessarily the first step. One must observe and note many cases before even guessing at the probable law which governs all similar cases; but the only usefulness of the laws so discovered is that they may be applied under the deductive method to new facts and circumstances. The proper relations between them may be thus stated. By applying the inductive method to many cases, a general principle may be at least tentatively arrived at. This

² Cairnes, p. 108.

¹ Cairnes, Character and Logical Method of Political Economy, p. 108, quoting Herschel.

general principle may then be applied by deduction to other cases, where the actual result is known, and if the result of the deduction is in accordance with facts, its truth is fairly demonstrated, and it may with greater confidence be applied again to new cases where the result is not already known. But it is always desirable to test the results obtained through the deductive method by fresh reference to actual facts, whenever possible.

In regard to his methods, however, the economist is at a disadvantage compared with students of the exact sciences in that he can very seldom adopt the latter's method of experi- Experiment. ment as the engineer can do by making a model. If the chemist wishes to know how two substances will act when brought together, he can try it and see. But it is very difficult for the economist to do so, because he cannot, like the chemist, isolate his facts. That is why one so often finds in discussions of economic questions the reservation "other things being equal". It is as if the chemist in his experiment were constantly afraid that his chemicals were impure, and that the results were not the characteristic action of the two things he desires to test, but were largely due to the impurities. Thus, in everyday economic problems, which deal with large numbers of individuals, the result may be seriously affected by individual idiosyncrasies, or by some disturbing causes due to outside conditions which cannot be estimated or discounted.

Finally, with regard to methods, Economics must above all things be practical, if it is to be of real use to ordinary people in their everyday life. It is true that the exploration of its scientific groundwork, the careful elaboration of its principles, is a matter for the academic student with time and the proper mental equipment and scientific training at his disposal; but for the ordinary man Economics must be essentially an applied science. He has to "live Economics", and what he wants from his teacher is to be shown how to see life—his own life— Economic through economic spectacles. That life is full of economic problems; he wants to be able to recognise them by their

names, to know where and how to look for the facts, and how to compare the conditions of his own particular problem with those under which similar problems have arisen elsewhere or in other times. It is his own everyday life that he wants to study and understand, in the light of the experience of others and the theoretical principles which the scientists have worked out for him.

To return to the question of the name of the science; if it were only a question of a name it would hardly be worth discussing, but it is more than that. The old name, Political Economy, is now undesirable, because these two words have each acquired in popular use an objectionable meaning, which has nothing whatever to do with their original meaning as the name of the science. "Political" methods are the last thing we want in Economics, though, unfortunately, many economic problems have again become the playthings of party politics. And "economy", especially in these latest days, has become a byword. Mere "saving money" is certainly not the whole of Economics.

Economics

Political
Economy.

But the dropping of the old name is due to more than the mere desire to escape evil associations. Political Economy in the true sense of the words was a correct description of the science in the time of Adam Smith. In those days the functions of the state were all-embracing, the life of the individual was controlled and directed at every turn by laws and regulations. mostly prohibiting something, and the meaning of Adam Smith's great doctrine of economic freedom was that the state should mind its own business and leave the people to mind theirs, viz. to get their living in the best way they could, subject to the minimum amount of necessary control, the maintenance of law and order, of national defence, and of the state itself. Political Economy therefore meant the management of the affairs and property of the state, and Adam Smith's great object was to show that, according to the laws of nature (including human nature), things would work out for the greatest good of the greatest number if individuals were as far as possible left alone to work out their own salvation. It is these natural laws that form the subject matter of Economics, which simply means the laws of property (olkos=a house) or wealth, or better still the management of the affairs of the household in the widest sense of the word.

CHAPTER II

DEFINITIONS

Importance and difficulty of economic definitions—Value and wealth— Utility and exchange value—Production and consumption—Labour— The factors of production.

DEFINITIONS are the tools of an abstract science. To define means "to determine or to ascertain the extent of the meaning of a word, to ascertain the signification of a term, to explain what a word is understood to express".

Importance of definitions. The importance of exact and careful definitions cannot be too strongly impressed upon the student who is entering on his first experience of abstract science. It is essential alike to clear thinking and to logical argument that he should carefully consider his definitions, and settle as exactly as possible what he means to include under each word and, still more important perhaps, what he means to exclude. Otherwise he may find that unconsciously he has been using a word with different shades of meaning, or that his inability to convince an opponent in debate is due to the fact that the latter is using certain words in a different sense from himself.

Intension and extension.

The process of definition involves two ideas, which are known to logicians as intension and extension. The "intension" of a term means the number of qualities which are implied by the term, and which must be possessed by each person or thing that is to come within the definition. The "extension" of a term, on the other hand, means the number of persons or things to which that term may be applied. Employing these technical

terms, it is obvious that the greater the intension of a term, the smaller will be its extension; the more precisely and fully one specifies the qualities of the particular class one has in mind, the smaller will be the number of individuals who come within that class. Thus the general term ship includes a very large genus, which is immediately restricted if the definition is confined to one class of ships, e.g. steamships. If again there is added to the intension of the term the possession of turbines, the size of the class is still further reduced, and so on. Note how this bears out the statement made above that the important matter in a definition is to know what it is to exclude. Thus, in discussing "money", it is necessary to specify whether credit instruments are included, such as cheques, or only currency, and in the latter case whether paper currency as well as metallic money is included, or still further, whether only Government paper money is intended, or whether bank-notes are to be included.

The difficulty of arriving at exact definitions in Economics is Popular greatly increased by the fact that, Economics being the science of everyday life, the economist must use everyday language in which to express himself; and as the words employed are all in common use, they have already acquired a certain popular meaning, or several different shades of meaning. It might seem simpler to throw over these words and adopt special scientific terms from Greek or Latin; but by doing so more would be lost in the practical usefulness of the science to ordinary people than would be gained in scientific exactness.

The first definition is naturally that of wealth, the subject matter of the science, and inseparably connected with it value, for wealth is simply everything that has value.

The word value is commonly used in either of two main senses, clearly distinguishable from each other.

(1) Value means the utility, pleasure, or satisfaction which Value one derives from the use or consumption of some desirable object. This may be called utility, desirability, or value in use. It means something entirely personal to the owner of the commodity, representing merely his own particular idea of the worth

Subjective value.

of it to him. It is what is called in philosophic terms "subjective" value. It is a value placed upon the commodity by the man himself, and it does not matter whether any one else thinks the thing of value or not; for it is independent of, and may even be opposed to, the generally accepted idea of utility. It is his idea of its value, and it is worth that to him because he thinks it is. The value is created by his desire, and nothing else affects it.

Intrinsic value.

The term intrinsic value is sometimes applied to this idea of subjective utility, but it is misleading and dangerous. There is no such thing in Economics as intrinsic value in the sense of a "real" value, whether people realise it or not. Value means the capacity to satisfy some human want. If nobody wants a thing it has no economic value, and it is beside the question to argue that they ought to want it, just as much as it is beside the question to argue that whisky should have no value because people ought not to want it. As a matter of fact even in business experience there are sometimes extraordinary developments. when market values seem to get entirely away from intrinsic A striking case in point was once seen in the cotton trade when Egyptian cotton, which is of longer staple and finer quality and is "intrinsically" much better than American, was actually selling at a lower price, because it so happened that at the time there was a serious scarcity of the ordinary "breadand-butter" American cotton, and those who wanted that could not use Egyptian, because their machinery was not adapted to it. It was as if cream were selling for less than the price of milk, because there are people who do not like cream or cannot digest it. The fact is that this idea of intrinsic value is only the result of a difference of opinion about subjective utility. It means that people have different ideas of the utility of particular commodities, especially works of art, and certain of them wish to enforce their particular notions of value on other people by claiming for their ideas a peculiar virtue or sanctity. But after all these notions of value are only a matter of taste which may change.

(2) The value of an article depends on how much of other Relative or commodities one can get in exchange for it; in other words, the exchange value. idea of value is "relative" or "objective". Value in this sense means that one thing is worth more or less than something else. This is called exchange value; it is the result of a process of comparison and selection. In practice this root idea of the meaning of exchange value is apt to be obscured by the fact that in real life one does not compare the value of every commodity directly with another. Instead, men have developed the habit of comparing everything with one universal commodity, money, and so arriving at the relative value of different commodities by comparing them all with this standard instead of with each other. Thus exchange value becomes price, which is simply exchange value expressed in terms of money. But in careful thinking one must not forget that price is only a means of expressing the relative value of two commodities to each other. It is not convenient to speak of a pound of tea being worth 10 lb. of sugar, but that is what one means by saying that a pound of tea costs 2s. 6d. and a pound of sugar 3d.

Which, then, of these two ideas—utility or exchange value is to be adopted as the basis of the economic definition of value? In point of time it is clear that the abstract idea of subjective utility precedes the idea of exchange value. A man must have formed his own idea of the utility of each of the different articles to himself before he can pass on to the second step of comparing these subjective values with each other. It is therefore clearly utility which gives rise to exchange value; desirability, the Relation of capacity to satisfy human wants, is the sole source or cause of exchange value. But, on the other hand, it is not till the second process is reached, that of comparison, that one's ideas of value become in any degree precise or definite. The common saying that "we never know how much we value anything till we have to do without it" only partially expresses the essential truth of the idea of value, which is that we never know how much we value a thing till we come to exchange it for something else. In other words, while utility in the economic sense is the sole source

or root cause of value, it is exchange which measures and determines value. The idea of utility is personal and intangible, while that of exchange value is definite and measurable; but the two are not necessarily, nor even usually, the same.

Measurable values.

Economics can only deal with such notions of value as can be measured in some way. Exchange value can be measured, utility cannot; the former must therefore be adopted as the economic definition of value. Henceforth, when value is spoken of without a qualifying adjective, it means exchange value. When it is necessary, as it may often be, to speak of the subjective utility which lies at the root of all exchange values, it must be called utility, or subjective value.

Wealth.

Apply this distinction then to the definition of wealth. root cause of all wealth is utility. Nothing can be wealth which does not possess the capacity of satisfying human desire; but many things that are desirable have no exchange value. In logical terms, All wealth consists of desirable things or "Goods", but not all goods are to be reckoned as wealth. The word "goods", which Marshall adopted, is peculiarly unsatisfactory, because in ordinary usage it has a very definite meaning (soft goods, or a goods train, for example), which is entirely opposed to the sense required here. Economic "goods" include not merely merchandise, not even merely a man's material possessions, such as his house, furniture, books, pictures, etc., but all desirable things, everything that is capable of satisfying a human want; and that, as will be seen later, includes services. It seems impossible, however, to find an English word that fully and exactly expresses that meaning, and rather than adopt or invent a Greek word it seems better to retain the term "goods", even if it has to be in quotation marks.

Classification of "Goods" In order to arrive at a definition of wealth, it is necessary to classify these "goods" and see which of them are to be included in the definition.

- "Goods" may be either
- (a) Material—all useful material things, or

- (b) Personal, which, again, may be divided into
 - (i.) External, which are derived from others, such as services, and
 - (ii.) Internal—a man's own faculties or capacities for action or enjoyment, like the love of music or of outdoor recreation

Again goods may be classified as either

- (1) Free—those desirable things which are afforded by nature in unlimited quantities and without appreciable effort, such as air, and which are not normally capable of being appropriated by one individual as his own property to the exclusion of others, and
- (2) Exchangeable—goods which are by nature movable or transferable (and therefore capable of appropriation), and are limited in quantity, and not free.

Which of these different kinds of goods can be included in the definition of wealth, remembering that the object is to exclude all those goods of which the value cannot be measured by exchange? Clearly, personal internal goods must be excluded. because they are entirely personal to the man himself, and cannot be transferred to any one else. Again, those goods which are free gifts of nature cannot be bought or sold, because no one will buy them, being able to get as much as he wants for nothing. Wealth in the economic sense of the word must therefore be Definition of defined as including (1) all those material goods which are not free, and (2) those external personal goods which can be used to obtain such material goods, or can be obtained in exchange for them. This simply means all those goods which have exchange value.

By thus analysing and explaining this definition Marshall removed the misconceptions which had arisen round the old definition of wealth as merely everything that has money value. While fully realising that all money value depends on utility, he showed why it was necessary to exclude certain elements from the ordinary definition of wealth, because that must be confined to measurable values.

Personal wealth. But sometimes it is necessary to speak of the wealth of an individual in a wider sense, so as to include everything that is of utility to him. This may be called "personal wealth", which includes all the elements of wealth, as already defined, and also his own artistic or intellectual tastes or pleasures, that is to say, it also includes personal internal goods.

National wealth. Again, one may wish to speak of wealth from the national or social point of view. This includes not only the total nett wealth of all the individuals which compose the nation, excluding, of course, claims by one against another, which are only cross entries, but also those items of national utility, called common or collective goods. which belong to the nation, but not to any one individual, such as climate, geographical position, navigable rivers, natural harbours, etc. Note that this idea of national wealth is much wider than the technical term "Crown property"—the wealth of the Government—though the terms overlap to some extent. Foreshores, for example, and navigable rivers are part of the state domain which includes many other forms of wealth of the usual kind, such as public buildings which are merely held by the Government in trust for the public.

The science of human efforts to supply human wants may divide its work into two main departments—production and consumption. What exactly do these mean?

Production.

Man cannot create matter; he cannot make anything except out of something else; he cannot make a piece of wood, but he can make a table out of a piece of wood. The human race possesses in itself nothing but the power to labour. Men require for the exercise of that power certain raw materials upon which they may work, or out of which they may make weapons or tools or things to consume or enjoy. These materials are the gift of nature. Man takes them, and by means of labour converts them into other forms which are capable of satisfying human wants. This process is not in the strictest sense creation; it is merely adaptation. Production, therefore, is the process of adapting things to human wants, of making them useful; it is the

¹ Most of these are not exchangeable, being incapable of appropriation or transfer.

creation of utilities, but not of matter. Even agriculture is not making things grow; it is only putting the seed in the prepared ground, where the forces of nature produce the crop.

In the same way consumption does not mean destruction of Consumpmatter, for matter is indestructible; it is merely the destruction or conversion of utilities. Man takes wood and coal and makes a fire. He has not destroyed the matter of which the wood and coal were composed; he has simply converted them into other forms of matter, some of these not visible, but none the less existent. He has destroyed the utility of the wood and coal for his present purpose of providing heat, but he has produced heat, which he can apply to many other purposes, including the production of power.

Note, however, that sometimes there may be negative pro- Negative duction, which means the prevention of destruction. Thus the services of the police in protecting property from a riotous mob, or of the wardens of the protective banks which prevent the flooding of agricultural land, are clearly valuable, because without them the productive labours of others would be in vain.

The idea of labour is commonly confined to the manual labour Labour. of those who are loosely called the working classes. But there are many other forms of labour which may be as hard, that is to say, as exhausting, as manual labour, though in a different way, and sometimes even more productive, such as the brain labour of the inventor who discovers some method of economising manual labour. Again, there are many forms of exertion, as in athletics, which are not labour in the economic sense, but a labour of love. The economic test of labour is not in the nature of the work so much as in the motive which inspires the worker. Thus labour may be defined as any exertion of mind or body undergone partly or wholly with a view to some good other than the pleasure derived directly from the work. Note that this produces the peculiar effect that what is properly defined as labour in the case of one person may not be labour in the case of another, or

for the same person under different conditions. The exertion of a boy playing football for his school cannot be defined as labour, but if later on he becomes a professional player, then it will come within the definition. Or if a man works in his own garden because he likes it, that is not labour in the economic sense; but if he hires a gardener to do the work for him, that is labour. In fact the point was never more neatly put than by an old Irishman who said that "work's not work unless you're paid for doing it".

It may be noted that this is the first case (but will not be the last) in which it will be found that a really satisfactory and simple definition is impossible, because the turning-point of the definition is not in the thing itself, but in the intentions of some person regarding it. That, however, is to be expected in Economics, which is the science of human motives or notions of value in regard to things.

Productive labour.

Arising out of the definition of labour there was among the earlier economists a long-standing controversy with regard to the definition of what they called "productive" labour. That controversy would not be worth recalling now, except for the fact that it throws an interesting and useful light on the definitions already discussed, particularly that of wealth. Obviously the question of what is productive labour immediately raises another question-productive of what?-and the only answer that can be given to that question must be, productive of wealth. Now, if the definition of wealth were confined to material goods, obviously a great deal of labour which consists only in services rendered, such as, for example, education, produces directly no material result, and would therefore be classed as unproductive. So in the same way would be those of the doctor, the musician. the domestic servant, or the missionary. But as such a result is absurd, the question is referred back to the definition of wealth. and especially to the fact that certain kinds of services are included in the definition of wealth, namely those which have exchange value. The point is worth discussing, because it shows how difficult it is to establish a definition, which will be at once clear and easily applied. It will be remembered that services. personal or non-material goods were divided into those services which a man can render to some one else, and those forms of satisfaction which he himself derives from his own capacities for action or enjoyment. Take, for example, a man of high musical culture, but who has no performing skill, either vocal or instrumental, which would enable him to earn anything through his musical knowledge. In that case the enjoyment which he gets out of attending the musical performances of other people is entirely personal to himself, and has no exchange value. If, however, he should discover an unsuspected capacity to describe and discuss these performances, as the result of which he found it possible to earn an income as a musical critic, he would then be able, as they say, to "turn his gifts to account", in other words, to make money out of his musical knowledge, and would then be in a position to render services which would have exchange value. His labour would then become productive.

It would be easy to carry this argument further, until it would involve some apparently very paradoxical results; but it does make the reader face the question, "How far are services to be included in the definition of wealth?" answer is, "Just in as far as they are turned into money"; and the logic of this conclusion is not confined to services. It applies to all forms of wealth. Wealth consists of all things that satisfy human wants and can be exchanged. It does not matter how foolish or regrettable the want may appear to other people; as long as some one wants the thing and is prepared to pay for it, it must come within the economic definition of wealth.

Lastly, production involves the use of various agents or Factors of factors of production. Strictly speaking, the two primary productions elements of production are nature and human labour; but in modern Economics these have been developed and distinguished into four factors of production-land, labour, capital, and organisation; and the remunerations which these different

factors of production receive—their shares in the joint product—are called rent, wages, interest, and profits. All of these will require fuller definition in later chapters.

CHAPTER III

THE PUZZLE OF VALUE

The central problem of Economics: the relation between exchange value (or price) and utility—Utility varies, but prices are uniform—How is the uniform or market price fixed: by demand or by cost of production?-Equilibrium of supply and demand.

THE discussion in the previous chapter of the meaning and definition of value may seem to be wasting a great deal of labour over a very simple matter, but it is all leading up to the fundamental question of the whole subject, which is: Why should the value or price of any commodity be what it is? Why, for example, should a bottle of cider cost only a shilling, while a bottle of champagne costs f_1 ? The fact is that the values of things are often very puzzling; and in many cases it is extremely difficult to detect any apparent relation between utility and exchange value or prices. It is easy, for example, to Utility a think of many commodities which are of infinite "value" in the sense of utility, but of which the exchange value or price is very small, such as water or salt; while, on the other hand, there are many others which command very high prices, but apparently possess very little utility. Take, for example, the relative prices of coal and diamonds, though here by the way the difficulty is due to a play on words. To say that diamonds have very little utility as compared with coal is really begging the question of what subjective utility means, by importing into the definition an ethical meaning of what people ought to regard as useful. As

already pointed out, utility, in the economic sense of the term, means nothing more nor less than the capacity to satisfy a human want, regardless of whether that want is wise or foolish; and if people desire diamonds to such an extent that they are willing to pay a high price for them, then the utility of diamonds to them must be great. The question still remains, however, why should some people place such a high value on these commodities?

Utility varies Again, the byword that "tastes differ" is the popular expression of the fact that the subjective utility of the same commodity varies to different people; but the exchange value or price is the same to every one. The teetotaller does not pay any less for a bottle of whisky than any one else, though he has "no use for it"; nor would he sell it for any less than its market value on that account.

Again, take the simple case of barter that used to figure so often in travellers' tales of the poor foolish native who was willing to barter rough gems of great value for a few trumpery beads or bangles. Did it ever occur to the reader to consider that transaction from the "poor ignorant native's" point of view? Here were strange beings, come from some unheard of country, in a ship of incredible size, who were prepared to give away quantities of the most wonderful ornaments ever seen, in exchange for a few rough stones which the poor native could pick up any day merely by going to the part of the beach where he knew they were to be found, and which possessed neither beauty nor anything else to make them attractive in the eves of a sane man! What could the native think but that these foreigners were utterly mad? And this is simply an extreme case of what happens in every case of exchange. Each party considers that the utility of what the other fellow offers is greater than that of what he is willing to accept in exchange. In other words, to each of the parties the subjective utility of the one commodity is greater than that of the other, but their notions of greater and less are reversed; yet the fact that an exchange takes place proves that the exchange value of the two

to different people articles is the same. Clearly, therefore, utility and exchange value are not the same thing, even in the mind of the same person at the same time.

Further, the utility of a commodity varies at different and at times even to the same person. What would one not give times. for a drink on a hot day at the top of a high mountain? But the same drink before starting would have had much less value. Yet prices do not change according to the varying intensity of man's desire at one time or another. They are on the whole uniform, and this uniformity is more or less world ahiw

This idea of uniformity of price is a thing to which people in Uniformity Western countries are so accustomed (or at least were so accustomed before the War) that they had come to look upon it as natural and the only right way. The Oriental method of haggling over prices seems to them childish and hardly even honest, but to the Oriental mind the Western way of fixed prices is incomprehensible. The fact is that the system of uniform market price is peculiarly and exclusively Western, and during the War there was almost nothing which annoyed one so much as to find that it had mysteriously broken down; that the same proprietary article was being sold in shops on opposite sides of the same street at different prices. The fact is that most people had never taken the trouble to think "Why should prices be uniform?" and "What fixes the uniform market price?"

Once more, why do prices and even values vary from time Prices to time? Note that this involves two ideas. Prices may change in the sense of a rise or fall of the general level of prices, as shown by the Index Numbers; but if the movement were simultaneous and uniform for everything (which it never is), there would be no change in the value of anything. But there are also alterations in the relative prices of commodities, which involve a change in values. Consider, for instance, the following list of the comparative prices of rubber and cotton:-

Date.	Rubber.	Cotton.	Value of 1 lb. of Rubber.			
1910 1914 1918 1922 1926 1931	Pence per lb. 105 27½ 27½ 27½ 23½ 9¼ 23½ 8½ 8½	Pence per lb. 8 7 22 12 9 5 5 2 5 2	Approximately. 13 lbs. of cotton. 4 "" 125 ", " 0.75 ", " 2.65 ", " 0.51 ", " 1.58 ", "			

Clearly the real values of rubber and cotton, that is to say, their relative values, have varied enormously in this period. Why?

The problem of prices.

This, then, recalls the third question referred to on p. 2, namely, why should it be necessary to have a science of prices? It seems that value is a difficult problem, which requires careful thinking to puzzle it out; that the prices of commodities are not simple, nor all to be explained by one rule. The theory of value, therefore, is just the question of how prices are fixed; it must explain the ratio or rate of exchange between different things, as expressed by the relative amounts of one common commodity, money, for which all other things are exchanged, that is to say, by their prices.

Supply and demand.

The definition of Economics as the science of human efforts to supply human wants indicates the two sides to this question—efforts and wants, supply and demand. Which of these fixes prices—the cost of the human efforts, or the strength of the human wants? Is price fixed by cost of production or by demand? It will be necessary to discuss these two sides separately. On the demand side the nature of human wants must be considered. It will be found that there are certain natural laws which govern human wants more or less precisely, and from these a law can be derived with regard to the effect of demand on price and also of price on demand. Taking supply in the same way, there are certain general rules affecting the supply of commodities and their cost of production from which it is possible to infer how far price depends on cost of production, and how the supply of any commodity depends on its price.

Then the results of the inquiry into these two sides of the question must be brought together to see how they fit into each other. If the laws of supply and demand act against each other, how which fixes are they balanced or brought to equilibrium? For market price? price is the price which brings supply and demand to equilibrium. the price at which the quantity of any commodity offered for sale will be the same as the quantity which people are willing to buy. Thus market price "equates" or balances supply and demand. How does it do it? Is it supply or demand that rules the price?

The answer to that question is, "Neither alone, but both together". One might as well ask, "Which blade of a pair of scissors does the cutting?" But that illustration may be carried further. Watch a man, a woman, and a tailor using a pair of scissors. The ordinary man moves both blades, the woman moves the lower blade, the tailor rests the lower blade of the big shears on his cutting board and moves the upper blade only. In the same way sometimes the influence of supply is greater than that of demand and sometimes the reverse. How, then, is the share of each fixed? In what cases does the cost of production have the predominating influence, and in what cases demand? In what way does each influence price? The theory of value, therefore, means the theory of the equilibrium or balancing of supply and demand; it explains how supply and demand work upon each other, how each of them affects price, and how in turn price reacts on each of them.

The chief contribution of modern economists to the develop- The demand ment of economic theory is in regard to the demand side of the equation. The classical economists had expounded very fully the effect of cost of production on price and the tendency of competition to cut prices down to the cost of production. In doing so they had worked out a very interesting series of laws of supply, such as the laws of Diminishing and Increasing Return, the theory of Rent, and the ideas of Market Price, Normal Price, etc.; but it apparently never occurred to them that it was necessary or possible to apply similar methods of

Marshall's analogies. detailed study to demand, on which as a rule they said very little at all. Jevons and the Austrian economists, however, broke new ground in that direction, and Marshall developed the subject in a very interesting way, largely on the analogy of the previous treatment of supply; indeed it was almost as if he had deliberately set himself to show that every argument or line of thought that his predecessors had developed for supply could equally well be applied *mutatis mutandis* to demand. Consider, for example, the following parallel table of laws or theories and their terminology:—

Supply.

Law of diminishing return.
Marginal cost of production.
Marginal producer.
Producer's surplus or rent.
Supply price.

Demand.

Law of diminishing utility. Marginal utility. Marginal consumer. Consumer's surplus or rent. Demand price.

It was perhaps natural that as this treatment of demand was new, Marshall should put it first in his discussion of the theory of value, but to the student approaching the subject for the first time this arrangement has one disadvantage. The terminology of the subject, especially the idea of the margin, is unfamiliar; but it seems more natural and is more easily understood in the case of supply, especially of land, than of demand. Having mastered the terminology in the case of supply, it should be easier for him then to apply it by analogy to the case of demand, where the same terms are used in a more figurative sense to denote mental conditions.

It seems preferable, therefore, to take supply first, and to work out the theory on that side where it has the advantage of being more commonly understood and accepted; and the writer proposes to reverse Marshall's order in that way.

CHAPTER IV

SUPPLY

The factors of production: Land, Labour, Capital, and Organisation-The meaning of "Supply Price"-Sources of supply and remuneration.

THE question which runs through the whole of the next five chapters is how far the market price of any commodity is fixed by the cost of its production. If a motor cycle costs say five times as much as the pedal-driven machine, is it because it costs five times as much to make it? If the price of a staple raw material falls, as rubber has done in recent years (see Table on p. 28), is it because the cost of production has been reduced? The illustrations given in the previous chapter have shown how difficult it is to find any connection between the prices of many commodities and their apparent utility. It would be just as easy here to produce many cases in which the prices show no apparent relation to cost of production, such as a picture by a Cost of well-known artist, a first edition of Shakespeare, a Parisian and prices. model in a milliner's shop, or a large diamond. Yet to the Western mind it seems a natural thing to expect that in most cases prices ought to bear some relation to the cost of production. So strongly ingrained is this idea that if some article, such as a new patent, is being sold at a high price, people are inclined to say, "What a swindle; it can't cost half that to produce it!"

Again, it seems natural that if the price of a commodity rises, the effect should be to induce the growers or manufacturers to increase their production, and the reverse if prices fall; and that is the form in which the problem is to be examined in the Effect of price on supply.

following chapters. Is it true that the supply of a commodity depends upon the price which the producers can obtain for it, that if a sufficient price is not offered the supply will be reduced. or that if an increased supply is wanted, it is only necessary to offer an adequate price and the desired supply will be forthcoming? It is easy to produce many cases in which that has happened; but in order to prove that such is the law of supply, it is necessary to find out how and why it happens so, and whether it always happens. In other words, the problem is the relation between supply and price, or the effect of price on supply. Marshall put this in a very useful phrase when he spoke of the "supply price" of any commodity. When he said that any particular quantity of a commodity has its supply price, he meant that if a certain price is offered, the supply will be so much; if the price is raised, the supply will increase; if the price falls. the supply will decrease; in other words, there is a direct causal connection between the price offered and the supply produced. The first thing then is to prove that this law is true, and next to find out exactly how the price affects the supply. A little consideration will show that the increase is not always in direct proportion to the rise of price; in the case of manufactured articles a relatively small increase of price may produce a very large increase of the supply; or, on the contrary, in the case of natural crops, like cotton or wool, a substantial increase of the price may produce a comparatively small increase of the supply. On the other hand there are many cases, such as motor-cars, in which a reduction in price has coincided with a very large increase of the supply. What then is the relation between price and supply on the one hand and between cost of production and price on the other hand?

raw materials, labour of all kinds, capital, including tools and machinery, and the fourth factor of production and price on the other hand?

The method of tackling this problem is as follows: Under modern conditions the supply of any commodity is a complex problem involving the combination of four different factors of production, as they are called, namely, land, which includes all raw materials, labour of all kinds, capital, including tools and machinery, and the fourth factor of production added by

Supply price

Marshall, which he called Organisation, meaning the services of of each the employer, who is essential in modern production under the production factory system. In the old days of the independent artisan, raw materials and labour were the main factors, capital being confined to a few very simple tools; but under the modern system of large-scale production by machinery in huge factories, capital and organisation have become the most striking features of the system, and it will be necessary to study them very fully.

If the theory which lies behind the idea of supply price is true of production as a whole, it ought to be true of each of these four factors of production separately; so that if, for example, the world wants a larger area of land put under a particular crop, it should be possible to get that increased area simply by paying a higher price to the owner or cultivator of the land. In the same way, but reversing the case, if it is found that the workers in a certain industry are being consistently underpaid. one would expect to find the supply of labour in that trade diminishing. Again, if the investor in a particular class of securities finds that the normal return to that class of investments is dwindling, it should become more and more difficult to get new issues of that class taken up by the investing public; and finally, if a new industry, such as artificial silk, apparently offers tempting profits to those who care to take the risks of going into the business, can it be assumed that the result will be a rush on the part of employers and capitalists to go into that trade? Thus each of the four factors of production must be taken separately, and the question is whether the supply of land, labour, capital, and organisation respectively depends on the amount of the remuneration obtainable by that factor of production. To answer this question it is necessary to consider the sources of supply of each factor of production separately, and to find out in each case whether these sources are such as would be affected by the remuneration obtainable.

CHAPTER V

LAND

Nature's share in production—Limits of the supply of land—Law of diminishing return or increasing cost—Ricardo's theory of rent—Intensive and extensive cultivation—Rent of building land—Supply price and rent of land—Other forms of rent.

Full meaning. LAND in the economic sense means not merely the surface of the earth available for cultivation or building, but also all the raw materials and forces which nature provides for the use of man; in other words, nature's whole share in production.

At first sight it would seem that the supply of land cannot be in any way affected by the rent obtainable for it, or the price of its produce. The area of the earth's surface, and the quantity of the raw materials which the globe contains, are fixed, and the supply is incapable of being made either greater or less by any effort of man. How, then, can land have a supply price? It is not, however, the absolute amount of land or raw materials in existence in the world that matters; but rather the amount available for the uses to which man wishes to put them. What man wants is not merely land, but land suitable and convenient for his purposes; not merely raw materials, but raw materials in a place and in a condition in which he can make use of them. If the world is short of cotton it is little consolation to know that there are millions of acres of good cotton land in the heart of Africa, but remote from any feasible means of transport, or that Brazil could grow as many millions of bales of cotton as the United States if the necessary labour and capital were available.

The supply of land

Or again, if the world's gold supply is inadequate, of what avail is it to know that there must be plenty of gold-bearing strata still untouched, if only we knew where to look for them?

To make land available for cultivation, or to make raw involves materials available for production, requires in every case labour and capital. the expenditure of a certain amount of labour, and the use of certain tools or machinery, which are capital. Thus, although nature's potential contribution to production is fixed in amount. the actual supply of land and raw materials available for production is dependent on other things than nature alone; in other words, the supply of the factor of production called land depends on labour and capital as well as on nature herself. Now the supply of labour and capital is not limited, and, as will be found in subsequent chapters, it depends on the remuneration obtainable for them; that is to say that labour and capital have their supply price. The question is, then, whether labour and capital when applied to land lose this characteristic, or whether they still have their supply price when applied to agriculture or to the production of raw materials such as coal or iron.

The powers of nature under the application of labour and capital produce a peculiar result. It has been observed that when labour and capital are applied to agriculture, the return obtained does not always keep pace with the increased expenditure. Beyond a certain point each successive application of labour and capital to the same piece of land yields less additional return than that which preceded it. This has been called the Law of Diminishing Return, which may be thus stated: Beyond a certain point, every increase in labour and capital applied to land produces in general a less than proportionate return.

But the name diminishing return is unfortunate. To the Law of novice it may convey the idea that the total return from land return diminishes with increased expenditure, which of course is obviously not true. What the law means is that the additional return received as the result of further expenditure is less than the additional outlay. To meet this objection it has been suggested that the name "disproportionate return" should be

used; but there is another way in which the matter can be put more clearly, as follows: If the extra return per acre due to the additional expenditure is less than before, the practical effect will be that the cost of production per unit of the additional return will be higher than that of the previous units. Thus if land has been giving a return of 32 bushels of wheat for an expenditure of say £5 per acre, that works out at a cost of or increasing 3s. 12d. per bushel. But if additional wheat is required and the expenditure per acre is increased to £6, but the yield is only raised to 36 bushels per acre, then obviously the average cost of each bushel of wheat grown will be increased to 3s. 4d., or nearly 7 per cent more than before. Surely, then, it would be much clearer if this were called the Law of Increasing Cost and stated in this way: "Beyond a certain point every increase in the production of raw materials or the supply of natural resources can only be secured at an increasing cost in labour and capital".

cost.

The application of this natural law of production to agricultural conditions was first pointed out by Anderson about 1777, followed by Malthus in 1814, but Ricardo worked it out fully in 1817, and every other economist since then has followed him. It has led to the development of an elaborate terminology which must be considered, because it contains one idea in particular. that of the margin, which now runs through the whole of economic theory. The argument may be briefly stated as follows:-

Idea of the margin.

> The law of diminishing return does not necessarily, nor even as a rule, come into play in the early stages of agriculture. In pioneer farming with virgin land in a new country where population is scanty, the return to the small amount of labour available may be quite satisfactory; yet if more labour were available for better cultivation the results would be still more profitable. Again, if capital were available in the form of agricultural machinery, the return might immediately be increased to such an extent as would quickly cover the cost of the capital. But as cultivation goes on year after year and the supply of labour and capital increases, better and more expensive methods of cultivation will be applied; indeed they will become necessary.

because the longer the land is under cultivation the further it recedes from the condition of virgin soil, and unless it is possible to adopt a scientific system of rotation of crops which will prevent the exhaustion of the soil, it will probably be necessary to make large use of fertilisers.

Thus the cost of production per acre increases faster than the increase of the yield per acre, and the cost of production per unit of the crop begins to rise. It then becomes a question whether it is better to continue cultivation on this scale of increasing outlay on the existing area, or whether it would be better to go farther out and take in more virgin land, assuming that to be still available. Note that it is not to be assumed that the order in which land is taken up in a new country is in accordance with its physical qualities; on the contrary, it is more likely to be dictated by nearness to the sea, by which the first settlers arrived, under and safety from native attacks, or in modern times nearness to different conditions the railway, which provides the essential transport for exportable crops. But for whatever reason, the land first taken up was presumably the most profitable at the time; and however the conditions may change (as, for example, by the extension of the railway) the problem is always cropping up again, whether it is better to cultivate more intensively the land already under crop, or to push on to new or inferior land. In either case, as the situation develops, there comes a point at which a certain part of the land is just on the margin of paying or not, under existing conditions; and this idea of the margin is the pivot of the whole argument. The "marginal land" is that which under present conditions is just paying because the yield just covers the cost of production.1 In the same way the last application or "dose" of labour and capital, in the form of further cultivation or fertiliser, which just gives a return sufficient to cover its cost, Marginal has been called the marginal dose. The return derived from the terminology. marginal land or marginal dose is described as the marginal return, and the cost of production on that land as the marginal cost of production.

¹ For the definition of cost of production, see note on Table, p. 42.

Intensive v. extensive cultivation

There are various different forms in which this law of increasing cost may show itself, according to circumstances. Taking agricultural land in the first place, there are two opposite systems of cultivation, known as intensive and extensive cultivation, to which the law applies in different ways. Intensive cultivation means applying a large quantity of labour and capital to a small piece of ground, as in market gardening, while extensive cultivation means applying the available amount of labour and capital to a large area, as in wheat-farming in Western Canada. The law of increasing cost may be applied with equal truth to either of these methods. In the case of intensive cultivation, it means that after a certain point has been reached it will not pay to devote any more labour and capital to the same small piece of ground, but that it would pay better to take in more land. the other hand, even when virgin land is cheap, and it seems most profitable to extend the circle of cultivation over a large area, a point will ultimately be reached when, instead of taking in new land farther away from the market, it would pay better to cultivate more highly the land which is nearest to the market. In either case the result is the same—after a time a point is reached when it no longer pays to continue the particular methods previously followed, because a further application of labour and capital according to these methods will not vield an additional return equivalent to the extra expenditure.

This law of diminishing return (as mentioned incidentally in a previous chapter) is really a law of nature; and though, in the form in which it is now stated as the law of increasing cost, it has the appearance of an economic law, it is still none the less really a physical law. Even the laws of nature, however, may at times seem to be in abeyance, or even set at defiance by man. Our grandfathers would no doubt have said that to fly in a machine heavier than air was impossible, because it was against the law of gravity. They could understand a balloon, where the lifting power of a gas lighter than air would overcome the power of gravity; but they naturally could not foresee the modern flying machine, because even if they understood the action of a

A physical law.

bird's wing, they could not have imagined any form of engine which would be powerful enough to carry its own fuel and its own weight so easily as the internal combustion engine driven by petrol now does.

In the same way this natural law of increasing cost of the Modificaproducts of nature may seem to be in abeyance at times or may the law. apparently be overcome by man's power of invention. Thus, as already described, there is a stage in the early development of a new country where increased labour and capital produce more than a proportionate return, because the point of diminishing return has not yet been reached; and as long as there is unlimited virgin land on which to start afresh, the day of diminishing return may be indefinitely postponed. In a huge continent like America, when the primitive methods of the agricultural pioneers had exhausted the virgin soil near the sea, they had only to move on and begin again. Even now they have not really occupied the whole continent, great areas of good land having been passed over, or only inadequately cultivated and then abandoned in the continual westward movement. So much did this strike the later economic writers that they were inclined to say that the law of diminishing return applied only in old-established agricultural countries such as England, where there was no virgin land left. In modern times, however, this modification of the apparent action of the law has been carried still further: because experience has shown that the adoption of improved methods of agriculture, such as the rotation of crops, better drainage, or modern chemical fertilisers, may so alter the whole conditions of agriculture that the operation of the law is pushed backwards for a further period. As the result of such experience, and in view of the great possibilities which still lie ahead of scientific agriculture, it is doubtful whether even now a great part of the land The position in England. of England has finally reached the point of diminishing return. It is claimed that, given the required labour and capital and the necessary initiative and imagination, the additional scientific knowledge now available would make it possible to put back the clock again, as it were, and bring once more into progressive

agriculture much of the land which has now reached an apparently static condition.

Finally, it is obvious that just as the introduction of a new and more profitable crop may materially alter the factors of the economic equation involved in a particular form of agriculture, so a change in the price of the produce due to extraneous causes may entirely alter the result, and give a different answer to the equation. If the market price of a crop rises, without a proportionate increase in the items which make up its cost of production, it may very well pay to extend cultivation to lands which, under the conditions previously existing, were not capable of producing the crop at a profit. That lesson was taught us again during the War, when, owing to the pressing demand for home-grown food and the rise of prices, it was found profitable (as well as necessary in the national interest) to break up for corn a great deal of land which for many years had been turned over to grass because cattle paid better than corn.

Effect of price on diminishing return.

Thus it will be seen that the law of increasing cost, though fundamentally a physical law, is subject to as many modifications as any economic law; and the practical result is that, like an economic law, it is safer to treat it as only the statement of a tendency which must not be applied in any dogmatic way, because, until all the conditions of the particular case are known, it is impossible to say exactly how the problem will work out. But this does not affect the fundamental truth of the law that if man requires to draw upon nature for a larger supply of raw materials, or any other of her sometimes niggardly gifts, he must be prepared to face the time when the cost of the efforts necessary to enforce his desires upon nature will increase. The more the world wants out of nature, the more it is likely to cost per unit in the long run.

Nature's law of cost.

The law of increasing cost, taken along with the limited supply of land, produces a peculiar effect on the price of the commodities produced by the soil. Strictly speaking, so long as any part of the earth's surface remains unoccupied by man, the limit of the supply of land has not been reached. But when it is remembered that the qualities of the soil vary greatly, that there is always good land and bad land, it is apparent that the best land must be limited in quantity, and owing to the law of diminishing return, the total amount of crop which can be taken out of all the best land is more or less a fixed quantity. Now, if the demand of the market for the products of land is so great that the best lands alone are insufficient to meet it, other and poorer lands will require to be put under cultivation to increase the supply. The superior qualities of the good soil, however, will show themselves in the higher yield which it gives in Differential proportion to the amount of labour and capital expended on production. it, or in the lower cost of production for an equal yield, which comes to the same thing. The crop grown on the best land will cost less per unit than that of the poor land; or, in technical terms, there are now differential costs of production. But when the crops of the best and worst land alike come to the market, the price which they fetch will depend on their quality (which for the sake of the argument is assumed to be the same) and not on their cost of production. If the demand is so great as to require all the wheat in the market, the product of good and bad land alike, the owner of the good land will not sell his crop for any lower price than the owner of the poor land, simply because it cost him less. In the same market there cannot be two prices for the same commodity at the same time. Now. the owner of the poorest land must get enough for his crop to Economic pay the cost of growing it; unless he can do so it will not pay him to go on producing. But if the owner of the poor land can get his cost of production for his crop, then the owner of the better land, whose cost of production per bushel is less, will be receiving something more than his cost of production; in other words, the owner of the best land will be earning a surplus over his cost of production.

This may be made clearer by a concrete illustration. Imagine four farms of one hundred acres each, A, B, C, and D, graded in quality from the best down to the worst, the inferiority showing itself both in lower yield per acre and higher cost of production, thus:—

Area 100 Acres.	Yield of Wheat (Bushels).		Cost of Production.*		Total Price	Pure Rent or Economic Surplus.		
	Per Acre.	Total.	Total.	Per Bushel.	@ 3/9 per Bushel.	Per Bushel.	Total.	Per Acre.
A	36	3,600	10,800s. (£540)	3 S.	13,500s. (£675)	9 d .	2,700s. (£135)	278.
В	34	3,400	11,050s. (£552:10s.)	3s. 3d.	12,750s. (£637:10s.)	6d.	1,700s. (£85)	175.
С	32	3,200	11,200s. (£560)	3s. 6d.	12,000s. (£600)	зđ.	800s. · (£40)	8s.
D	30	3,000	11,250s. (£562:10s.)	3s. 9d.	11,250s. (£562:10s.)			
Totals		13,200	44,300s. (£2215)		49,500s. (£2475)		5,200s. (£260)	

Including seed, manure, wages, the farmer's own remuneration, rates and taxes, also interest and depreciation on capital, both landlord's and tenant's.

Price fixed by marginal cost of production. If the demand of the market is not less than 13,200 bushels then D's crop will be required to make up the total, and he will not sell it for less than 3s. 9d. per bushel, because that is his cost of production. In that case the economic rents of A, B, and C will be as shown in the right-hand columns.

Putting this into economic language, the market price of wheat is fixed by the cost of production of wheat grown on the marginal land, that is, by the marginal or highest cost of production, while the owners of better land will be earning a surplus. This "economic surplus", as it is called, may be defined as a surplus due to the possession of a superior instrument of production. It is an excess of price over cost of production, the difference between a uniform market price and differential costs of production. There is clearly no such surplus except in the case of the wheat grown on the better land; the price received for the wheat grown on the poor land is just enough to recoup the producer for the labour and capital spent on the crop, including, remember, his own labour if he works on the land

Economic surplus.



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himself, whether as a labourer in the field with the others or as organiser and supervisor of the whole system of production.

Now this theory of economic surplus is, as a theory, perfectly simple and easily understood; but when it comes to translating it into practice it is perhaps the most difficult of all economic theories. For this theoretical idea of economic surplus is the basis of the everyday idea of rent with which every one is painfully familiar, the rent of agricultural land, of fisheries, grouse moors, and deer forests, the rent of his house or office, the ground rent of building land, and the rent of minerals, which is called mining royalties. How does this come about? It will be less difficult to see first how it works out in the simplest case of agricultural land.

The first difficulty is to see how this idea of a surplus in the How hands of the producer of wheat on the superior land becomes a surplus surplus payment of rent to a landlord. The explanation lies in the fact "rent". that the surplus is due, not to the exertions or skill of the farmer, but to the fact that his land is better than his neighbour's: it is due to the natural and inherent qualities, what Ricardo called the "original and indestructible powers of the soil"; in other words, it is due to nature, not to man. In a sense, therefore, it has not been "earned" by the producer; it is not the result of his labour. Clearly, then, it "belongs" to the land, and not to the farmer; and if, as is so often the case in older countries, the land does not belong to the farmer, but to a landlord, then this surplus will naturally go to the owner of the land. It is not necessary in the meantime to discuss the question of how the landlord comes to be the "owner" of the land, and the nature and economic consequences of his ownership; but this much is clear. Here are two farmers working equally hard and skilfully on two farms of different natural quality, which produce very different results. If the farmer of the poor land gets out of the price of his crop a return which covers all his expenditure but no more, it is not "fair" as between the two farmers that the other should get something more than that. Suppose, for example, that both farms had originally belonged to one man,

who on retiring gave one farm to one son and the other to another, on condition that they should keep him for the rest of his days, it would obviously be reasonable that the son who got the better farm should pay a larger share of the old man's maintenance than the other: he can afford to do so because the land yields more. This, then, is the origin of the rent paid to the landlord; the economic surplus due to the possession of a superior instrument has become a payment for its possession. It is a differential payment due to differential costs of production; and if the payment is rightly adjusted, both farmers will find themselves left with an equal remuneration after paying their rents. Rent, then, is the surplus yield due to the superior quality of the better land, and theoretically the marginal land should pay no rent at all, because it yields no surplus over cost of production. But here is another stumblingblock to the ordinary man. Who ever heard of land that pays no rent? The answer to that requires the explanation of two points.

A differential payment.

In the first place, there is a great deal of land in England, and still more obviously in Scotland, for which actually no rent is paid. Every farm contains in itself varying qualities of land; in the North, for example, some good arable land, some hill land, of almost no value at all, because it will carry nothing but a handful of sheep to a hundred acres, and even that only in summer, and other land which is worthless—bog or scrub. Now the prospective tenant making an offer for the farm as a whole must take all that into consideration, but his offer is in the form of an average rate for the whole farm, say, £1 per acre, taking good and bad land together. The best of it is worth much more than that; the worst may be worth nothing at all.

" No-rent " land.

Again, in defining rent as the surplus over cost of production, it must be remembered that cost of production includes both labour and capital, and capital includes all the farmer's outlay, not only on seed, manure, etc., but also on machinery and working animals, and, if he be his own landlord, on buildings and often on the improvement of the land by drainage, etc.

Now, under the system of tenant farming which is common in England, most of the fixed capital is provided by the landlord, who has to provide and maintain the necessary buildings, roads, fences, drains, etc., and on this expenditure he naturally expects a return as interest on his capital. This is of course part of the "Interest cost of production which must be covered by the price of the crop: but it is paid by the tenant to the landlord as part of the actual rent, from which indeed it is never distinguished in practice. But in its real economic character it is not rent, that is to say, not economic surplus at all. It is the supply price of capital, and therefore part of the cost of production, while economic rent is the surplus of price over cost of production. Every farm must pay the landlord something in this way, and it therefore seems that there is no land which does not pay rent in the everyday sense of the word. How, then, is it possible to distinguish this kind of rent from the true economic surplus? It is useless to explain to the farmer that it is not rent at all; it is part of what he knows as rent, what he pays to his landlord, and is quite indistinguishable in his eyes or in practice from any other kind of rent. The only course, therefore, seems to be to qualify it by some phrase which will indicate its real nature, say, "Interest rent". As a matter of fact it is very doubtful whether in England before the War much of the agricultural land was paying any real economic rent at all, except in the best districts. In the poorer districts the actual rents were hardly enough to cover the interest rent, that is to say, the interest charges on the capital spent in quite recent times on the buildings, etc.

There is, however, still another difficulty, due to the dis- Economic crepancy between the use of economic terms and their actual residual, meaning to ordinary people. The economic rent is essentially a surplus or residue; it is what is left over out of the price after deducting the farmer's cost of production, and if, say, in a bad season, or as the result of a fall of prices, there is no such surplus, there should be no rent payable. But nothing could be further from the truth than this as a description of rent in the ordinary

sense of the word, for under the English system rent is the first charge on the whole produce of the land and the whole assets of the tenant; it is a sacred contractual obligation, privileged and protected in every way.

Legal character of actual rent.

The explanation is that under this tenant-farming system the legal character of actual rent has been changed; the risk of there being a surplus or not has been transferred from the landlord to the tenant, and the "rent" becomes simply a fixed payment which the tenant binds himself to make to the landlord whether he earns it or not. Of course the tenant does this with his eyes open: he knows the risk and takes it intelligently, and he does not do it for nothing. The rent he offers to the landlord is such that with ordinary luck in the seasons the tenant will make a little more than what he has to pay to the landlord; and if by good management, or good luck in the weather and the markets, the balance is large, it all goes into the tenant's pocket. In England farmers have become accustomed to this system, and it suits English conditions probably better than any other, especially as the whole responsibility for good husbandry is on the tenant, subject only to the landlord's power to enforce the conditions of the lease on that score. But note that this does not affect the real character of rent in the long run. Taking it all over, the actual rent must over a period of years coincide with the real economic surplus of the land, or one or other party would soon regret his bargain; and as even the longest lease must come to an end, the opportunity does come to readjust its terms. Thus the general level of actual rents is always tending to the real level of economic rent, in spite of every legal and conventional obstacle.

reconciliation.

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Rent as the income from land.

But this again produces another difficulty. When a man buys an estate he does so on the basis of so many years' purchase of its rent-roll, that is to say, he calculates the price he is willing to pay, say, at twenty-five times the clear revenue which the rents ought to yield him, which in effect means that he expects to get a return of four per cent on his capital. But economic rent is a very different thing from interest on capital; it is nature's

surplus, which is essentially variable, with the result that in bad times the landlord finds his "return on capital" a vanishing quantity, though of course in good times it would be the other way about. And he cannot help himself. What he has bought is not a "fixed interest-bearing" security, but a share in nature's bounty or otherwise, and he must take the risks of his bargain.

It is perhaps even more difficult to see the application of Rent of the idea of rent to the case of urban land used for building, but land. the only difference is that the superiority of one site over another depends, not on any natural qualities of the soil, but generally on the accidental fact that large numbers of people wish to live in one place or near a certain centre. The result is that it is impossible for every one to get accommodation there, and the limited amount of space available goes to the highest bidders. The superiority for which they pay rent is an artificial superiority of position or situation, created by man himself; but the result is the same. The owner of ground near the centre of a large city, who builds houses or business premises on it, will be able to draw from his property much higher rents than the owner of another property farther out, who may have spent just as much capital on his buildings. The resulting surplus to the one owner is a rent of the purest economic kind, which, it may be noted in passing, becomes capitalised in the value of the land. Of course the rents which the tenants of both premises pay to their respective landlords consist, as before, of two items: (i.) interest on the capital spent on the buildings, and (ii.) real economic rent or surplus, a payment for the possession of an instrument which they themselves consider superior.

It is necessary now to consider the relation of this rent or Rent and economic surplus to price. The question may be put in this price. form: Does rent enter into cost of production? Does price depend on rent? Is it because a tenant farmer pays a high rent for his land that he must get a high price for his crops? No:

the answer is the reverse. Rent depends on price, not price on rent. Rent is the difference between market price, which is fixed by the high cost of production on the poorest land, and the lower cost of production on the better land. The reason why the farmer pays a high rent is because his land is so much better than his neighbour's that he gets bigger crops out of it. His unit cost of production is less, but his price is the same; and the surplus, which is due to the natural qualities of the soil, goes to the owner of the soil, the landlord, as rent.

If rent were abolished.

This question as to the effect of rent on cost of production may be put in another form. Suppose all rents were abolished. would the price of corn fall? If by rent is meant only the true economic surplus, the answer is easy. Taking the illustration on p. 42, D pays no economic rent because he earns no surplus; he would therefore gain nothing by the abolition of rent in that sense, and his cost of production would be as before. He must therefore continue to charge the same price, and the others would do the same. The result would simply be that they would make the same surplus as before, but instead of paving it to the landlord as before, would retain it for themselves. But of course if actual rents were abolished, including interest rent. then D also would benefit by that in the first place, and would therefore be able to reduce his cost of production and his price. and the others would be compelled to follow suit, but only to the extent of D's reduction.

Shop rents and prices.

A similar question frequently arises in regard to shop rents. It is said that the shopkeeper in a busy street must charge higher prices because of the big rent he has to pay. This is only partly true. So far as his "rent" consists of interest on the capital spent in building large and elaborately fitted premises, then it is really interest on capital or interest rent, and as such it is part of the cost of production and must be covered by the price. But if the high rent represents the real economic rent of a favourable situation which brings business, then the rent he pays for the site (and incidentally also the interest rent of his large premises) should be covered by the profits of his larger

turn-over, without charging any higher prices than others less favourably situated.

Theoretically, therefore, true economic rent can never enter where rent into cost of production; but there is one case in which it really into cost of does do so in effect, namely, that of an established agricultural production. country where it is proposed to introduce a new crop in competition with those already grown. During the War, for instance, great efforts were made to introduce flax-growing into certain parts of England and Scotland, where it had completely died out during the past century. The farmers who were asked to set aside land for this crop naturally wanted an assurance that they would not lose by it; and they had to be guaranteed a price for the flax which would cover not only the true economic cost of production of the crop, but also the rent of the land. They argued that the land was already growing other crops which gave a yield sufficient to pay the rent, and unless the new crop would do the same they would not touch it. Thus in effect the rent actually paid by the existing crops did enter into the cost of production of the new competing crop.

Such an exception, however, must not be allowed to blind us High rents to the danger of the popular idea that rent should be included in cost of production. That danger is that if, owing to high prices due to temporary and extraneous causes, rents go up for a time, it may be argued by the farmers, when things return to normal again, that high prices must be maintained or they cannot pay their rents. That was the argument which led to the terrible protective system of the Corn Laws after the Napoleonic wars. and of course the answer is simply that rents must come down again. It was to avoid this difficulty that the Rent Restriction Acts were passed during the Great War, but they were really ineffective; they only put the rent into some one else's pocket. For it must be emphasised that the emergence of rent is a natural phenomenon, which cannot possibly be evaded so long as there are differential costs of production. A very peculiar case of this is seen in the coal-mining industry as brought out by the Report of the Commission of 1919. The conditions under

Mining rents. which coal is produced vary greatly; for example, as to the depth of the shaft required to reach the seam, the character of the coal (whether gassy or not), the amount of water found in the pit. the thickness of the seam, and the character of the strata, which greatly affects the cost of propping or maintaining the roads, etc., underground. All these affect the cost of "getting" the coal and bringing it to the surface. During the War, costs rose to such a height that many of the poorer pits could only be maintained on a paying basis by raising the price to a level far above what was necessary to cover the cost of other pits more favourably placed. These were therefore drawing huge "rents" in the form of profits, and owing to the national emergency the country had to have every possible ton of coal. The result was in effect that the Government had to guarantee the worst pits these high prices, and then to take away with the other hand by special taxation the huge profits which they were thus throwing into the hands of the other colliery owners.

Unearned increment.

It is in cases like this and the enormous ground rents of populous cities that the hardship of economic rent to the community becomes so obvious that it has led to persistent outcry and the coining of the name "unearned increment". As already pointed out, all economic surplus is in a sense unearned, even the rent of the best agricultural land, though there it seems somehow more "natural". But the case of ground rents, especially in congested city areas and new suburbs of rapidly growing towns, where the landowner is apparently doing nothing to help that growth, but is quietly and inevitably growing richer at the expense of the community, does seem to deserve special treatment. Thus John Stuart Mill wrote: "Suppose that there is a kind of income which constantly tends to increase, without any exertion or sacrifice on the part of the owners; those owners constituting a class in the community, whom the natural course of things progressively enriches consistently with complete passiveness on their own part. In such a case it would be no violation of the principles on which private property is grounded, if the state should appropriate this increase of wealth, or part

of it, as it arises. This would not properly be taking anything from anybody; it would merely be applying an accession of wealth, created by circumstances, to the benefit of society. instead of allowing it to become an unearned appendage to the riches of a particular class. Now this is actually the case with rent." 1

only case of unearned increment, and indeed that only in certain limited cases does land yield any such golden harvest; but the obvious hardship of the case of urban land has concentrated attention upon it and has lent force to the agitation for what is called the taxation of land values. All that can be said here on that subject is to admit what is entirely beyond question, the theoretical soundness of the claim that "rent", wherever it is pure economic surplus, is a peculiarly fit subject for special taxation. Whether it is practicable to devise a scheme of taxation which would accurately discriminate between pure economic surplus and all the other items which make up rent in the ordinary sense of the word, and which would also meet fairly the claim of those landowners whose land has fallen in value through causes equally beyond their control, is another question altogether. Probably nothing less than the complete nationalisation of land would meet the difficulty, and the difficulties

It is of course easy to show that land is by no means the Taxation of

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What, then, is our conclusion with regard to land? Has it a Supply supply price? Does the amount of the crop or raw materials price of obtained from the soil, or the supply of houses built upon it, depend upon the remuneration offered—on the price of the crop, or the raw materials, or the rent obtainable for the houses? As already explained, the question really means, Do labour and capital, when applied to land, have a supply price? The answer to that question is certainly in the affirmative, but with a condition. The amount of land devoted to the cultivation of

and drawbacks of that proposal must be left for later

discussion.

a particular crop, and therefore the supply of the crop itself, will certainly respond to the inducement of a high price for the crop, but the inducement offered will probably have to be steadily increased as the amount demanded increases. On the other hand, the supply will certainly fall off if the price obtainable is not sufficient to remunerate the producers as they think they deserve.

is not rent.

Owing to the varying qualities of the soil, however, the better land will always produce more crop than others for an equal amount of labour and capital, so that the better land yields a surplus as compared with the others. This surplus or economic rent is not the supply price of land; indeed, the idea of supply price does not apply to nature's share in production at all, while the idea of rent or surplus is the economic antithesis of a supply price. The root of the matter is that labour and capital applied to land must receive their supply price, even when applied to the worst land in cultivation, the marginal land. The price of the crop must therefore always be at least high enough to cover the marginal cost of production, which is the supply price of the labour and capital applied to the marginal field. But if the supply price is covered even on the marginal field, obviously it will be exceeded in the case of all the better land. The capital and labour applied to the good land not only earns its supply price, but also receives something more, a surplus due to the superior qualities of the soil.

Is rent permanent? This surplus, being due to the superiority of the soil, will be permanent so long as the superiority remains, but the duration of the superiority depends upon the nature or cause of it. If it is due to the inherent natural qualities of the soil, it will last practically for ever; but it may be due only to some accidental advantage of situation which may or may not be permanent. Building land near a large town, for example, may yield a very high surplus or rent, which, however, would disappear if the means of communication were improved, enabling other lands at a little distance to come into the market. Again, the high rents of the fashionable quarters of a town will fall if the

amenity of the district disappears, as it may do for no other reason than a mere change of fashion.

Lastly, it must be noticed that in any case of limited supply, Scarcity whether more or less permanent as the result of an established monopoly, or purely temporary as the result of an accidental or short-lived scarcity, the fortunate few who can supply what the market wants will make an extra profit or rent for the time being. and this extra surplus is really for the time being a rent of the same nature as that above explained, though generally less permanent. This may be called Scarcity Rent, and its chief peculiarity is that for the time being even the marginal producer is able to secure a price higher than his cost of production, and thus to command a "rent" which will last until increased production brings supplies once more up to the point where competition again cuts down the price to his cost of production. This is most easily seen in the case of house rents due to a temporary scarcity, because the increased supply of houses is necessarily a slow business, as has been so painfully demonstrated since the War. Thus the permanence of economic rent, even in the case of land, is really only a matter of degree; while, as will be seen later, there are other forms of rent, such as the Other forms surplus profits of those who have the good fortune to be first in the development of a new and profitable industry, which only differ from the rent of land in being still less permanent.

CHAPTER VI

SYSTEMS OF LAND TENURE

(1) Agricultural—Occupying proprietors—Tenant system—Metayer system— Long leases—Large v. small holdings. (2) Urban—Freehold v. leasehold—The Scotch feuing system.

Various interests. In the case of agricultural tenure there is of course only one question involved, namely, the relations between the owner of the land and the occupier or cultivator of it. Whatever buildings may be involved "go with the land" and are only ancillary to the contract. But in the case of urban tenures there are two questions: (1) the relations between the owner of the ground (the ground landlord) and the owner of the buildings erected upon it, for these owners are frequently not the same person; and (2) the relations between the owner of the building (who is called the landlord whether he owns the land or not) and the tenant or occupier of the premises. These different relations raise questions so entirely distinct that they must be taken separately.

I. AGRICULTURAL TENURES

Occupying ownership.

The most natural system is that the owner of the land should occupy and cultivate it himself. This has many obvious advantages, especially the energetic and efficient cultivation which is generally the result. The love of land is inborn in human nature. Every man likes to have a piece of land which he can call his own, to labour on it, and to reap the crops from it. Such a proprietor is naturally likely to take more interest in his land than one who is not the owner.

The opposite extreme is the modern tenant system, under Tenant which the ground and buildings are let by the owner to a tenant. system. who undertakes the whole duties and risks of management and cultivation, agreeing to pay to the landlord a certain sum of rent, fixed in advance. The main feature of this system, as already pointed out, is that the whole onus or risk of the business is transferred to the tenant; the landlord's rent is a fixed sum. payable independently of whether it is earned or not. This is perhaps the main objection to the system.

Half-way between these two extremes is the metayer or crop- Metayer. sharing system, under which the landlord lets the ground and buildings to a tenant under an agreement that the proceeds of the land are to be shared between them in certain proportions. This system certainly possesses many of the advantages of the occupying proprietor system; it makes landlord and tenant really partners in the adventure, as they ought to be, and maintains their mutual interest in the well-being and good

management of the land.

The question of the relative advantages and disadvantages Large v. of these various systems is bound up with another question, holdings. whether it is better to have large farms or small holdings. The answers to both of these questions depend largely on the circumstances of the country and of the land, the nature of the crops most suitable to the soil, and the methods of cultivation For example, where land is under crops requiring highly intensive cultivation, such as vines or cotton, small holdings and peasant proprietors are likely to produce the best results; but if the subdivision of land into small holdings is carried too far the result may be that, even with intensive cultivation, the land will not yield enough to provide a reasonable living, and the owner of the small plot is condemned to labour so constant and excessive as actually to be harmful in its effects. These evils have been well illustrated in France, where they have been intensified by the system of equal division of the land among all the children of the owner, as against the English system of primogeniture or inheritance of the land by

the eldest son, a system designed to prevent the splitting up of the estates of the large landed families. Again, take the opposite case of sheep-runs in Australia, which pay best when managed on an enormous scale, because from the nature of the work it is suitable for organisation on a large scale. There can be no doubt of the advantages of large-scale production in agriculture generally where the circumstances are appropriate—the advantageous employment of capital in improvements of all kinds, as well as in implements, stock, etc.; the more economical handling of large crops in large quantities; the opportunities of division of labour; and, generally speaking, all the advantages of a large turn-over.

Capital required.

These questions also turn largely on the amount of capital required. In England, where large buildings and expensive roads, fences, drains, etc., are required, which involve a large outlay of capital, it is a very good thing for the farmer to be able in effect to borrow the bulk of his capital by working as tenant under a wealthy landlord who can afford the capital expenditure, so long as he gets a fair return of interest on it. The supply of capital is one of the most difficult factors in the question of small holdings. On the other hand, the impoverishment of many of the proprietors of large landed estates and their inability either to sell them owing to the law of entail, or to provide the necessary capital for their development, or even their adequate maintenance, has in many cases arrested the development of modern farming.

Long v. short leases.

As to the relative advantages of long and short leases, where the system of cultivation involves schemes of more than a year's duration, where, for example, a long rotation of crops is in vogue, or where the tenants provide manure of which the effect is not exhausted for several years, it is clearly necessary that the tenant should have some fixity of tenure, or else that there should be a system of payment of compensation to the tenant if he leaves the farm before obtaining the full benefit of his improvements. Again, under short leases there is danger that the tenant, having no fixity of tenure, may be inclined to adopt

a short-sighted policy in dealing with the land, working so as to secure only the largest possible yield for himself for the time being, and regardless of the fact that his methods may be impoverishing the soil for his successors.

Where a system of tenant farmers is necessary it would seem desirable to adopt some form of the metaver system, because of the intimate relations which it requires between landlord and tenant. It is the landlord's interest not only to get as large a crop as possible, but also to look to the future, while the system is necessarily much more equitable to the tenant, in respect that it does not throw the whole loss of a bad crop upon him. But the advantages of the system are the very reasons which Difficulties have sometimes led to its abandonment. Many landlords prefer a system under which they receive a fixed income. without any trouble or risk. Such a system, especially if it leads to absentee landlords who take no interest in their estates. is likely to produce results disastrous to the interests not only of the landlords, but of agriculture generally. It is probable that the best hope for the future of agriculture in most countries lies in a system of peasant proprietors of farms of moderate size, with a system of organised co-operation to provide the more Co-operacostly implements for common use, as well as to undertake the purchase of seeds, manures, etc., and the disposal of their produce.

II. URBAN TENURES OF BUILDING LAND

In England there are now only two forms of tenure of urban land of any great importance, namely, freehold and leasehold. The Law of Property Act of 1922 went far to abolish all that remained of the innumerable old forms of land tenure which still served to recall the traditional growth of the English system.

The freehold system requires little comment; it is as near to Freehold. complete ownership as can well be, subject only to public burdens. and in certain cases other money payments of fixed amount, such as chief rent, or building restrictions, easements (servitudes).

and the like. From the economic point of view the main feature is that the freeholder is the permanent owner of the land, and any future increase of its value accrues entirely to him.

Leasehold.

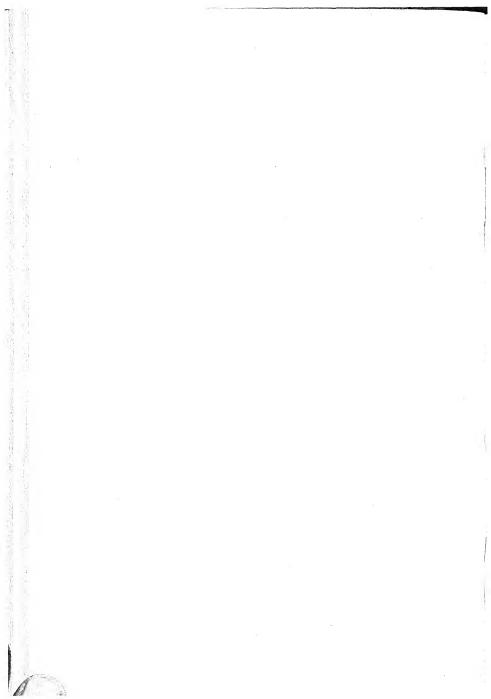
Under the leasehold system, on the other hand, the lessee's rights are limited to a period of years, say 19, 99, or 999, after which the land with all the buildings upon it reverts to the landlord without any compensation to the leaseholder, who indeed is liable for dilapidations if the property has not been maintained up to the end of the lease. Such a system presents to the economist a very curious problem. Obviously the building leaseholder must see his way to recover his expenditure on the buildings during the period of his lease, which means that the rent of the house must cover not only interest on capital, but also an allowance for depreciation or sinking fund, which in the case of short leases must be very heavy. On the other hand, the landlord, knowing that the freehold will return to him after a comparatively short interval, can theoretically afford to let the ground at a lower rate than if he were parting with it for ever, because the leaseholder has only a limited interest in the increased value of the land, if any.

Scotch feuing system. The Scotch feuing system, on the other hand, is the modern survival of the ancient feudal tenure, of which most of the nomenclature is retained. In effect it is practically an everlasting leasehold. The feuar is the real proprietor of the land, subject only to the public burdens, all of which are payable by him, and the rights of the "superior", who corresponds to the ground landlord. These rights are confined to the receipt of the feu-duty or ground rent and the enforcement of the building restrictions, both in the interests of the estate and of the other feuars, who have an independent right to enforce them for the preservation of the amenity of the estate and their own properties. All future increase of the value of the ground accrues to the feuar, on whom of course any future increase of the public burdens also falls. Theoretically the land, with all the buildings thereon, may revert to the superior if the feuar fails to pay the

feu-duty for two years; but that contingency is very unlikely to arise, because, quite apart from any increase of the land value, the value of the buildings is likely to be many times the amount of the feu-duty, and the feuar would lose everything.

The advantages of this system from the point of view of the feuar are obvious, it gives him security and permanence of tenure, and enables him in effect to borrow the capital value of the land from the superior at a low rate of interest, because the security is extremely good. The landlord can easily realise his capital at any time by selling the feu-duty; as a matter of fact these are a favourite form of investment for insurance companies, trustees, and the like, who desire a permanent fixed income. From the economic point of view its main disadvantage The systems is that the superior is parting with the land for ever, and must if possible capitalise the expected future increase of value in the price charged for the land. He may therefore, in the case of land which is rising or likely to rise in value, have to wait a long time before the speculative builder is prepared to pay the price which in the superior's view adequately discounts this future value; and while the superior is thus biding his time, the development of a town may be held up by the refusal of the superior to accept the present value of the land.

The balance of advantage of these two systems is to a large extent dependent on the character of the buildings required. in view of the climatic conditions of the country and of the temperament of the people. On the other hand, the permanence and inviolability of the building restrictions under the Scotch feu-contract may become a serious obstacle to the necessary conversion of a residential estate to other purposes when the character of the neighbourhood has changed, though as a rule this is done by general if tacit consent. Under the English system the periodic falling-in of the leases of a whole block of land, all granted originally about the same date, enables the ground landlord to adopt a comprehensive scheme of reconstruction, such as led to the rebuilding of the whole area of Regent Street, London, after the War.



CHAPTER VII

LABOUR

The sources of supply of labour-The Malthusian theory-Modern theory of population—Nett reproduction rate—The supply price of labour— Mobility of labour—Real v. nominal wages—Real v. nominal cost of labour-Industrial efficiency-Scientific management-Industrial fatigue -Welfare work.

LABOUR is the second of what may be called the primary factors Supply of production. The fundamental question here again is whether labour. labour has its supply price, whether the supply of labour depends on the remuneration offered for it. This question falls into two parts: (1) Does the supply of labour in general, the total quantity of the working population of a country, depend on economic conditions? and (2) Does the supply of labour in a particular industry respond to fluctuations in the level of wages in that industry compared with others? If one trade for some reason finds itself falling behind others in the struggle to maintain the standard of living, will the result be a movement of labour out of that trade or a check on the supply of new labour coming into it which will gradually reduce the supply? Or, on the other hand, if one trade finds its labour supply falling below requirements, can the shortage be remedied by raising wages? This last question may be put in still another form, which, as will be found later on, has very important implications. If the supply of labour in a particular trade or grade of industry is ample for the demand, is it safe to assume that there is nothing wrong with the wage conditions of that section of the community?

The method of attacking the question is as before. The first step is to consider the sources of supply of labour generally, and also of particular kinds of labour, and then to consider whether these sources are such that the supply is likely to be affected by the price.

Sources of supply.

The sources of the supply of labour in an industrial country may be treated under three heads: (1) The growth of mere numbers, the raw material of the labour supply; (2) the conditions which affect the physical health and strength of the labourers; and (3) the training necessary for their technical and industrial efficiency.

Malthusian theory I. The Growth of Population.—The Malthusian theory of population was that the population of a country always tends to increase more rapidly than its food-supply. The increase of population may be compared to a geometrical progression, which increases by multiplication, while the increase of food-supply is only by arithmetical progression, that is, by addition. The former is of course bound to outstrip the latter. Unless, therefore, the excess of population is either kept down by such causes as war and natural catastrophes, or else restricted by voluntary effort on the part of men, the only course open to nature is to wipe out the excess by starvation and misery. Hence Malthus argued, in order to avoid such cruel remedies, measures of voluntary restriction should be adopted.

There was much truth in this argument theoretically, and from the point of view of Malthus' time the fear of over-population was natural, for in those days every country was dependent almost entirely on its own food-supply. But modern developments of the means of communication with distant lands have entirely altered, not the truth of the theory, but its practical force. If England had still been dependent on her own food-supplies alone, her population would long ago have exceeded the available supply. Malthus could not foresee that by the introduction of steamships she would be able to draw her food-supplies from the farthest parts of the world. The theory is

under modera conditions

as true as ever, but now it must be applied, not to any single country, but to the world as a whole. Should the time come when the whole area of the earth's surface is fully occupied by man and the world is within sight of reaching the ultimate capacity of its possible food-supply, then the Malthusian theory will again be of great importance. But that time is still a very long way off, and before it comes it is possible that some chemical means will be discovered of extending the available food-supplies so as to postpone again the practical application of the theory.

In the modern theory of population, however, there will be Modern found a further answer to the fear of over-population. That population theory may be stated as follows:-

The growth of population depends on (1) migration, the balance of immigration over emigration, which generally tells against old countries and in favour of new; and (2) natural increase, or the excess of births over deaths.

(i.) MIGRATION.—It is very easy to exaggerate the effects of Migration. migration, both from the point of view of the country which dreads being overwhelmed by hordes of undesirable immigrants, as in the United States after the War, and also from the opposite point of view of the country which is afraid of losing by emigration more than it can afford of the hardiest and most enterprising of its people.

(ii.) NATURAL INCREASE.—The number of births depends on whether the average age of marriage in a country is late or early. This is largely influenced by (a) climate, being always earlier in hot climates than in cold; and (b) the expense of maintaining a family, which depends largely on one's class or station in life, and the standard of living which obtains in the country. Statistics have brought out the striking fact that among the lower classes men reach their maximum earnings at an early age, and therefore marry early and have large families. This tendency diminishes as we rise in the social scale to the skilled artisan classes, whose period of training or apprenticeship is longer, with the consequent postponement of the age of full earnings. But in the upper and middle classes, where men devote themselves to businesses or professions requiring long training or experience, and do not reach their maximum income till comparatively late in life, they do not care to marry until they have made a fair position, though still short of maximum earnings. The result is that the age of marriage is much later, and the average number of children in the family much smaller.

Dangers of neo-Malthusian theories,

Herein lies the danger of the Malthusian theory. The classes who have the smallest families are just those who, from their position and education, are the best able to bring up children who would be of use to the state, whereas those who are least desirable are those of whom the supply is largest. If, through the spread of the modern doctrines associated with the name of Malthus among the more or less educated classes, who are the most likely to be reached and influenced by them, the natural increase of these classes is still further checked, the tendency will be for the increase of the lower classes to swamp the upper classes altogether. If, then, the bulk of the new population is to be of the lower classes, our principal duty must be to see that this population is always being raised above the class in which it is born; but herein lies the evil paradox of the whole question. As soon as these lower classes begin to rise above the lowest level, whenever they become at least sufficiently educated to appreciate their own position, and accustomed to a standard of living even a little above the bare subsistence level, the natural desire to maintain that improvement for the next generation and to give their children at least as good a start in life as they had themselves, leads to the realisation that the more mouths there are to feed out of a limited wage, the less there will be to put in each. Thus, semi-consciously perhaps, a tendency to self-restraint and birth control emerges; and the present age, with its general recognition of the rights of women to equal consideration, has led to an increasing reluctance to face the cost of parenthood. The result is a steady reduction in the birth-rate which would be very alarming indeed if it had not been to a large extent compensated by the simultaneous reduction of the death-rate. and especially of infantile mortality.

Birth control.

In recent years, however, statisticians have evolved a new method of measuring the probable rate of future natural increase based on what is called the "nett reproduction rate". This Nett reproduction rate. calculation takes the number of women of child-bearing age by groups at the beginning of a certain period and multiplies it by the average number of female children born to them. Deducting from the result the number of females dying before marriageable age this should give the number of women of child-bearing age at the end of the period, and a comparison with the original number of the previous generation will show whether the population is reproducing itself. If the number at the end of the period is exactly the same as at the beginning, then the nett reproduction rate is described as unity. If it is less it is stated as a percentage, say 0.947. An examination of the statistics 1 in various countries shows that in 1934 the nett reproduction rate had already fallen below unity in all European countries except Bulgaria, Italy, Portugal, and probably Russia.

This argument seems irrefutable, and the only question is the rate of future decline in such countries. This depends, of course, on assumptions as to the rates of fertility and mortality. but calculations have been made on the assumptions (a) that these rates remain the same as they are now, and (b) that they continue their present trend. According to assumption (a) the population of England and Wales which in June 1934 was 40,467,000 would reach its peak in 1943 at 40,885,000 and by 1975 will have dropped to 38,504,000, and by 2035 to 19,969,000. On the second assumption (that the present downward trend of the rates will be continued) the peak will be reached in 1940 with a population of 40,655,000. In 1975 this will be reduced to 31,452,000 and in 2035 to 4,426,000!

Can anything be done to stop this declining trend in population? And here of course we must confine ourselves to economic influences, not ethical or patriotic. According to Carr Saunders there is very little hope for a further material decline in the mortality rates. The question of a higher fertility rate depends on many considerations such as those already referred to, and the only kind of action that seems open to the state is to subsidise children either directly, e.g. by family allowances, or indirectly by income tax rebates.

Age distribution. The consequences of a declining population are very far reaching. Apart altogether from military considerations it introduces many social problems, e.g. in regard to the provision of schools. Another important point is the inevitable change which it will produce in the age distribution of the population. Thus it has recently been calculated that taking the opposite ends of the population, those under 16 and those from 65 to 74, and basing the calculation on 1937 as 100 in each case, by 1942 the proportion would have sunk to 85:113, by 1952 to 73:127 and by 1962 to 62:132!

Population dangers.

It seems, therefore, that the danger with regard to population is two-fold. (i.) That the population of the country as a whole may cease to grow, or may even show a positive decline, and that to the writer's mind is still the greatest calamity that can overtake any nation. (ii.) That the average quality of the population may be reduced through the weight of increase of the population being at the wrong end of the scale. If the Neo-Malthusians could limit the reproduction of those physically and mentally unfit, and secure an increased birth-rate among those better fitted, all would be well; but that is an unattainable ideal. Again, the rearing of healthy children is at least as much a matter of environment as of heredity. Thus the one thing most necessary is to improve the conditions under which the children of the lowest classes are brought up. The next step, therefore, is to consider how the necessary physical efficiency and training of labour are to be secured.

II. The influences which affect the physical health and efficiency of labour may also be classified as follows:—

Health and Strength. (1) Physical conditions, such as climate, for a temperate climate is obviously more suitable to industrial vigour than a hot climate. Again, the nature of the food-supply of the working classes is of great importance; and lastly, the sanitary con-

ditions of the country. Economically speaking, disease is wasteful. Every man who dies prematurely of disease is as much a loss to his country as a man killed in war or by an accident in the factory; every man maimed or incapacitated by disease is not only a loss, but actually a burden to his country, which has now to feed and maintain him without receiving anything from him in return.

Mental fitness.

(2) Mental and moral conditions. The character of the working classes, their general state of education, or want of it, their status as free members of a well-governed state, and the moral and intellectual development or backwardness of the country, all have a direct effect on the productive efficiency of labour. It would be hard to find a better illustration of this than in the comparison of the working population of the cotton industry in Lancashire, the United States, and India before the War. In the first the workers were the most highly skilled and the most self-respecting of any in the country, if not in the world; in the second the labour was the sweepings of Europe, the machinery "fool-proof", and the industry was the most despised in the country; in the third wages and output were very low. The quality of the output in these three sections of the industry followed the same order of precedence.

(3) The character and conditions of the daily occupation. Occupation If the population of a country is largely engaged in healthy outdoor occupations, the general condition of the people is likely to be much better than if their principal occupations are such as to cramp or weaken them, or if the conditions of labour are such as to impair their health and destroy their efficiency. Hence the importance of maintaining agriculture in England in spite of adverse economic conditions.

In all these directions it is obvious that a great deal depends Mainly a on the amount of money which the working classes have at their matter of disposal. If a man's wage is raised he will be able to afford better food, better housing, and better conditions of life generally. It is clear, then, that in order to secure a large supply of healthy and efficient labour, the labourers must be provided with a wage

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sufficient to supply the necessary conditions of such a life as will make them healthy and efficient, or, as it is called, to maintain a fair standard of living. In short, the supply of efficient labour depends on the working classes being able to obtain a sufficient wage; in other words, physically efficient labour has its supply price.

Industrial efficiency.

III. In regard to the education and training of labour the same treatment by classification may be adopted. The main departments of the training of labour are: (1) The education and environment which tend to develop the general intelligence of a man rather than any special manual dexterity. This development depends mainly on the general conditions of life under which a man is brought up, his early home training, a well-directed system of general education, and the cultivation of all those faculties which go to make up general intelligence—the faculty of observation, of intelligent reasoning, of ready wit, and of quickness to act intelligently and on one's own initiative. (2) In addition to this general training, a workman requires more or less of special training or manual dexterity, the kind of skill or handicraft which can only be obtained by long practice at a particular employment, and which is only of use in that particular trade.

Modern tendencies. The tendency in modern industry is to diminish the amount of labour requiring mere manual dexterity, and to make general intelligence more important. Purely mechanical labour is rapidly disappearing, mainly owing to the introduction of machinery to take over such work. What is wanted is not a man who possesses only the manual dexterity required for a certain kind of work, but a man of general intelligence who can turn to one job or another as need arises. Whenever a job becomes purely mechanical a machine is invented to do the work, and the man who could do the work by hand is not wanted. His place is taken by the man who can attend to the machine intelligently.

Mobility of labour.

This development of general intelligence, as opposed to mere manual dexterity, has a very important effect. In the old days a man who had devoted the early years of his industrial life to learning one trade must remain in that trade, because his special skill was of no use in any other, and if his own trade failed he was likely to be thrown out of work altogether, and to fall into the ranks of unskilled labour. But nowadays a man who has learned to attend to the machinery of one trade can, if there is no work for him in that trade, turn to another where, if the machinery is not the same as he was brought up to, it is at least so far similar that he can soon adapt himself to the new work. One of the surprises of the War was the extent to which it proved possible to develop the mobility of labour. The withdrawal of men generally for military service, the insatiable demand for labour in those industries which produced military supplies, such as the woollen trade and munitions, and the reduction of demand for labour in other trades, especially the cotton trade at first and the building trade later owing to the suppression of all new building, led to the most unprecedented dislocation of the normal distribution of labour, and every man was forced to turn his hand to whatever job he could find, or whatever work was most pressing in the national interest.

The result of the modern development of mobility of labour is class that the old lines of division, vertical and horizontal, between different trades have become less distinct, and a man can more easily move from one trade to another. The effect on the supply of labour in particular trades, or in particular grades of employment, is very marked. There is nothing to prevent an intelligent labourer from rising to the higher grade of a skilled workman; and if a man who has learned one trade finds that his occupation in that trade is gone, he can turn to another. result is that the supply of labour in any particular trade adjusts itself much more readily to the demand than was formerly the case, or, in economic language, the mobility of labour is greater. This has a direct and very important bearing on the question whether labour has its supply price; whether the supply of labour in a particular trade depends on the price offered for it. In modern industrial countries the tendency is all in favour of an affirmative answer to this question. The

supply of labour in any particular grade of labour, or in any particular trade, does depend on the rate of wages offered, because all the elements of the supply of labour are such as to be easily affected by the inducement offered. In other words, labour has its supply price.

Real v. nominal wages. In considering the relative advantages of one trade or another from the workman's point of view, it is necessary to go deeper than the money wages offered, and to consider not merely the nominal or money wages, but rather the real wages or net advantages of each trade. The following points may be noted with regard to the difference between real and nominal wages:—

(1) The purchasing power of the money wages. If, for example, the general level of prices in one country or district is higher than in another, the real value of wages will be affected accordingly. The value of money depends on how much it will buy; and although wages in one country are higher than in another, the workman in the second case may really be better off owing to the lower prices of the commodities on which he spends his money. The history of wages and prices in England, especially since 1873, shows an almost unprecedented record of movements which involved changes in real wages.

Tools and training.

(2) In some trades the workman requires to incur certain expenses in equipping himself for his trade, purchasing tools, etc.; again, certain trades require a long and expensive training. A professional man, for example, has not only to pay out money for his education, but he has also to pass through a long period of training during which he earns little or nothing, and a further period of waiting till a connection is established. This must be taken into account in measuring the advantages of the profession when he is fully qualified and able to begin earning.

Allowances.

(3) In many trades the actual money wages are supplemented by certain additional allowances; a domestic servant, for example, may receive board and lodging and perhaps also a uniform in addition to his wages; or the employee of an institution may receive a free house with certain allowances of coal or gas, and have his taxes paid for him by his employers. these are simply so much added to the money wages.

(4) The employees in some trades can increase their incomes Suppleby supplementary earnings from some other occupation in earnings their spare time. Or, again, while the working man himself receives a certain amount of money wages, his wife or family may be able to add to the family income by finding suitable employment in the district. Thus, the total income of the household may be higher than in some other district where the head of the family could earn higher wages, but there is no work for the others. This proved a serious stumbling-block during the War to the desired mobility of skilled labour, as in the case of the transfer of skilled engineers from Nottingham, where the lace and hosiery trades offered ample employment for women, to Coventry where there was nothing of the kind. To meet this difficulty, supplementary industries have in many cases been established to take advantage of such a reservoir of unemployed labour.

(5) Again, a workman must consider whether the employ- Intermittent ment in one trade is likely to be permanent or intermittent; if, as in a seasonal trade, he is only to be employed during part of the year and idle the rest of the time, it might pay him better to have a constant job at lower wages. Many outdoor occupations cannot be carried on in bad weather; hence the controversy in the building trade over broken time and the guaranteed week.

(6) Certainty or uncertainty of success is an element which Certainty of is seldom duly considered. The professions, for example, are always judged by the public according to the highest prizes, and not, as they should be, according to the average income of all their members, including the large number who fail to make their way at all. Notice also that in the case of the professions there is another consideration. The life, the nature of the work, is certainly more attractive to many people than purely commercial pursuits. The difference may be put in this way. The workman or the commercial man lives by his work.

The professional ideal.

the professional man ought to live in his work; if he is inspired by the true professional ideal, he should, like the artist, find his greatest reward in the consciousness of good work well done. Again, many professions carry a certain advantage in respect of social position, such as the church in England; but in some cases this is counterbalanced by the extra expense which a professional man is compelled to incur in keeping up his position.

Working life.

(7) Duration of the power to labour. If the work is so hard and exhausting that the workman finds himself at a comparatively early age too old for work, or if the risks of industrial accident are high, as in coal-mining, then the high wages he earns during his active life require to be discounted, because he ought to be laying aside something all the time as a provision for old age or premature disablement. This case is not confined to the ranks of manual labour. The professional man must save something against the time when age will inevitably impair, if it does not altogether terminate his earning capacity; while even worse than the risk of early death, which can be covered by insurance to provide for his dependents, is the tragedy of the premature failure of earning capacity, through failure of body or mind. Against this take the case of a government position which carries a pension; that is equivalent to a higher salary, because it saves the necessity of setting aside part of one's present income against the future; but in some cases it is little more than deferred pay.

Working environment. (8) The conditions of labour. The workman must deliver his commodity, that is, his labour, in person; he must go himself wherever his labour is required. The workman cannot be separated from the conditions under which he is expected to work. If these are unpleasant, unhealthy, or dangerous, it follows that such work should be better paid than other work which can be done under more pleasant conditions. Yet this very question raises what has been called the "evil paradox", that the dirtiest work in the world is always the worst paid, because the only people who will do it are those who are reduced

to the lowest ebb, and therefore must take anything they can get.

(9) Lastly, in connection with the mobility of labour, it must Apprentice be remembered that the training of labour is an investment of capital, and this suggests two questions: (i.) Is the return to the investment always sure to come? and (ii.) Will it come to the man who made the investment? For example, under the old apprenticeship system, the master was bound to give his apprentice a thorough training in his craft, in return for which the apprentice, who during the early years of the contract was worth little or nothing to his master, was bound to serve the same master for a few more years at a low wage, so as to recompense the master for the early loss. But in modern times the bonds of apprenticeship had been very lightly regarded by the apprentices, who thought nothing of going off to another master as soon as they were fit to earn something like a journeyman's wage. The result was that the masters, knowing this, took less interest in training the apprentices, and the old system, which was of great value in its day, was disappearing. This tendency was accentuated by the difficulty of giving an apprentice an all-round knowledge of a trade which, owing to the enormous scale of modern factories, had become more and more specialised and subdivided, each "shop" or department becoming almost a factory in itself. But in recent years the revival of interest in technical training, alike on the part of the masters, the trade unions, and the education authorities, has led to renewed efforts to overcome this difficulty.

One reason for this increased anxiety as to the industrial Blind-alley training of youths was the realisation of the danger of "blindalley" trades, a phrase coined by the Poor Law Commission of 1909 for those occupations which, by offering comparatively high wages for unskilled labour at an early age, attract far more young men than they can carry through to adequate pay and good work in adult life. The maximum wage is soon reached, and, being unskilled labour, it is comparatively low and not even secure, for there is always an ample supply of young men still

coming in, while to find any other more promising opening as an unskilled adult is almost impossible. It is to a large extent from these blind-alley occupations that the ranks of casual labour are constantly recruited.

Again, if a youth, having finished his apprenticeship to a skilled trade, finds that, owing to changed conditions, the trade has declined so far that he is not wanted, what is he to do? And such a state of affairs is becoming increasingly common nowadays as industry becomes more complex and more specialised. Foreign competition or the discovery of new methods may at any time cause the ruin of a particular industry, and those who were engaged in it are turned adrift. The difficulty of accurately forecasting the probable demand for labour in any particular trade is thus becoming always greater, but at the same time, as already explained, owing to the increasing importance of general intelligence in all trades and the greater similarity of the machines used in different trades, it is much easier for labour to find something else to do. In other words, while the risk of making such mistakes in modern industry is greatly increased, so also is there greater facility in remedying the mistake when made.

Real v. nominal cost of labour. The question of wages and the value of labour may also be looked at from the point of view of the employer. Thus the distinction between real and nominal cost of labour points to the fact that the lowest paid labour is not always the cheapest from the employer's point of view. Cheap labour is likely to be inefficient, while a good man, as the saying goes, is always worth his wages. The real value of labour to the employer depends on its efficiency. If by giving his men shorter hours, better wages, or better conditions of labour, an employer finds that their efficiency is more than proportionately increased, it will be to his interest to do so. The increased product due to the greater efficiency of their labour will recompense the employer for the extra wages paid. This argument is the real justification of the efforts of trade unions to improve the position of the

working man; but it must be confessed that far more has been done in this direction by benevolent and far-seeing employers. such as Henry Ford, than by any other agency.

The system of "piecework", or payment of wages at fixed Payment by rates according to the amount of work done, is an attempt to meet this difficulty. Under this system a good workman can earn high wages in proportion to his efficiency. This system and its modern ramifications and modifications will be discussed later on.

This question of industrial efficiency has been responsible in the present century for a number of very interesting developments. The first of these had its origin in the United States under the title of Scientific Management, but has come to be known in this country as "Taylorism", from the name of its Taylorism. author. It was a system of quasi-scientific study of the individual mechanical motions required from the worker in any industrial process, and it was directed to secure the highest possible manual dexterity and efficiency at the lowest cost in energy and time. Each single operation was reduced to its component motions and timed by stop-watches, so as to discover the quickest and easiest way of doing it, and the maximum output that could be obtained by the interposition of rest periods and so on. Then the whole process was standardised and stereotyped in the most rigid uniformity, which reduced the human machine to the nearest possible reproduction of its power-driven counterpart. This system, however, became odious through its association in certain cases with the exploitation of the workers who received but a tithe of the resulting gain. In England this system has given place to a really humanitarian study of the whole question of industrial fatigue and efficiency, Industrial which under the aegis of the Industrial Fatigue Research Board has developed into the modern science of Industrial Psychology, and has already resulted in many most promising and suggestive lines of inquiry.

Another well-intentioned though sometimes misguided line of activity in industrial affairs has been the growth of welfare Welfare work. work, an attempt to extend the benevolent interest of the employer in his workers not only into every branch of the work in the factory itself, such as ambulance work, rest rooms, canteens, etc., and the provision of recreation, but even into the personal health and home life of the workers. The sturdy independence of the better classes of the workers, especially in certain industries such as cotton, has made the task of the welfare workers anything but easy, but where the masters have approached the work in the proper spirit of co-operation, not condescension, and the staff selected have been of the right kind, the results of the work have been on the whole good. They have at least done something to remove the reproach of the entire lack of personal relation between the modern employer (especially when he himself is only the employee of a limited company) and his enormous staff.

The extension of this desire to secure improved relations between master and man, in the direction of giving the workers some share in the control of the factory as it affects themselves, is still in its infancy, but has already shown how much it can do not only to make these relations more human and friendly, but also to lead to greater industrial efficiency. (See Chapter XV.)

Labour is perishable.

In discussing the relations between employers and workmen one point must be remembered which specially affects the interests of the working man. Labour is perishable, no commodity more so. If the labourer cannot find a purchaser for his labour to-day, its value is absolutely lost to the world; he cannot do to-day's work to-morrow. The workman, then, must take whatever price he can get for his labour to-day, because the average working man has no reserve. This obviously puts the workman in a very unfair position for bargaining with the master, who, while he may lose something by not being able to get the labour he requires to-day, is at least not so utterly dependent as the workman on the day's work for the day's bread. This is the principal argument of the trade unions in defence of their policy of combining many workmen together in one association for mutual assistance and strength.

What gives added importance to this argument is the fact that the effects on labour of the failure to obtain a sufficient wage to maintain efficiency are cumulative. If a man loses his job and cannot find another means of making a living, what is to become of him? His own efficiency is bound to suffer, and if he is long out of work the chances are that when he succeeds in finding another job he is no longer fit for good work, either because of weakness or of bad habits acquired while out of work. So he is compelled to take what he can get; he has fallen below the level of inefficiency into the sink of casual labour. But the matter does not end there. How can the children be brought up healthy or efficient workers with the father in chronic unemployment?

CHAPTER VIII

CAPITAL

What is capital?-Why does it get interest?-The sources of supply of capital-The supply price of capital-The rate of interest-Different kinds of capital.

As opposed to land and labour which have been described as the primary factors of production, capital is only derived from the products of these two. All the tools and materials which are now capital available for further production were once the immediate product of labour upon land; the farmer's seed corn of this year was part of his harvest of last year, which he might have consumed during the winter as food. Thus capital is fundamentally only the accumulated products of land and labour. At the same time it is not intended to convey the idea that capital is in any sense less of a direct producer than labour. In these days when most things are actually made by machinery. and the man's share is only to tend and feed the machine, such an idea would be entirely misleading.

Capital v.

At the outset it is necessary to clear up the confusion between the capitalist. the functions in production of this material capital such as a machine, and the services frequently rendered by the capitalist in an entirely different though rarely separable capacity, as the organiser of the whole business of production. Marshall rendered a great service by emphasising this distinction to the extent of creating a fourth factor of production which he called, for lack of a better name, Organisation. This chapter, then, is only concerned with the capitalist as the owner of capital. As far as

possible it is desirable to regard him as a different person from the employer who runs the business. The best way to do so is to think of the capitalists as the shareholders of a joint stock company, while the employer is only the managing director of the business, in which he does not even hold a share.

As before, the object of the inquiry is to find out what is capital, what are its functions in production, the nature of its remuneration, and whether it has a supply price. To do that it is necessary to consider the sources of supply and to see whether they are such that the amount of the supply is likely to be affected by the price, that is to say, by the rate of interest.

There have been many bitter controversies as to the nature Nature of and definition of capital. Without entering into these in the meantime, it may be noted that every conception of capital implies two root ideas:—(1) Productiveness: the fact that in some way capital produces, or helps to produce, more than would be possible without it; (2) prospectiveness: that the supply of capital is due to people looking forward and trying to provide for the future. These ideas correspond to the two sides of our problem, demand and supply. It is because of its productiveness that people want capital; they know it will pay them, and so they can afford to pay interest for it. It is because of their prospectiveness that other people have capital to lend; they are willing to save for the sake of the future income derived from the interest. The same ideas may be traced in the various definitions of capital. Mill spoke of it as the accumulated products of former labour destined for the production of future wealth. Adam Smith called it "that part of a person's whole stock which he expects is to afford him a revenue". These two sides of the idea of capital must be examined separately.

I. THE PRODUCTIVITY OF CAPITAL.—Why does capital get what is interest? In the first place, let it be made quite clear what is meant by interest. Suppose that the owner of a small factory begins business with fro,000, the bulk of which is spent on the factory, machinery, etc. At the end of the first year, after paying for his raw materials, coal, wages, etc., out of his sales,

he finds that he has a surplus of £2000 left over. This may be called gross profits. How much of it is interest? To arrive at that he must set aside the other items which are clearly not interest. (1) His machinery, buildings, etc., are not so good as they were at the beginning of the year. They have suffered by ordinary wear and tear, and in course of time will be worn out or become obsolete and require renewal. To prepare for this he Deprecia- must set aside a depreciation or renewal fund. This is clearly tion. not interest; it is simply preserving his capital intact. Suppose he writes off £500 for this item. (2) His first year may have been a particularly good one and he knows that future years cannot always be so good. He may have bad debts next year. or incur some heavy loss through "bad stock", seasonal goods which fail to sell and must be "slaughtered", or a new style or design which fails to hit the public taste, or again he may "get on the wrong side of the market" in the purchase of his raw Reserves, materials. He must lay aside something to provide for such contingencies—a reserve fund. This, again, is clearly not interest. It is only a premium of insurance against the risks which are inherent in all business enterprise. Say another £500 for this. (3) There is still £1000 left, and now we ask the manufacturer where this comes from. Why have the public paid him so much more than his apparent cost of production? His answer is that unless he could make as much as that he would never have gone into the business at all. "I have Employer's £10,000 of capital in this business," he says, "on which I had a salary. steady income before I came here of 4 per cent, or £400. I was earning a salary of £600 a year myself in another business. What would have been the good of going into this business, unless I could make at least as much here?" This points to the explanation of the frood surplus. Part of it is the employer's own salary; he considers that he is worth at least that; he could get it anywhere else, and must get it out of his own business too. The rest is what is called the usual rate of interest. Interest, then, is a return for the use of capital apart from any

consideration of risk or of skill in conducting business. It may

Pure interest. be defined as that annual return to capital which can be obtained, as a rule, without personal services and without risk.

It may make things clearer to consider how these figures A limited company. would appear in the accounts of the supposed limited company running such a factory. Depreciation would be written off before profits were struck at all, and also the £600 which would become the managing director's salary. This would leave profits of £900 out of which a 4 per cent dividend would be declared, the balance of £500 being carried to reserve. or simply carried forward to next year's accounts, which comes to the same thing.

This illustration brings out clearly how it is that interest emerges. It is a surplus of value. The manufacturer throws his capital into a state of solution, as it were, and at the end of the year it comes back to him, with something added to it. That addition is interest. Where has it come from?

There have been many answers to this question, as, for various example, (1) that interest is a payment for something the interest. capital has done, as for the use of a tool which doubles the worker's output, or of a machine which does the work of a dozen men with only one man to watch and feed it; (2) that it is a payment for the use of capital, as for the loan of seed or money to buy coal or raw materials; or (3) turning to the other side of the question, that it is a payment to the capitalist by way of recompense to him for not using up his wealth, but setting it aside as capital instead. All these theories contain part of the truth. but they do not go to the root of the matter. The first two only touch the most obvious uses of capital; the third really begs the question. Why should we pay a man merely for denying himself something, unless we are going to gain something by his self-denial? It is not because saving involves a sacrifice that the borrower is prepared to reward the saver; he cannot afford to do so unless he can somehow make the capital produce the interest. In other words this argument only goes back again to the fundamental question. How does capital produce? The answer to that question involves anticipation of the whole

argument of the following chapter, but it may be briefly indicated here:—

The real cause.

The main feature of modern industry and the factory system is what is called long-period production. In the old days every small craftsman did his day's work, sold his product, and went home at night with the money in his pocket; but it is very different now. The capitalist employer takes many men into his factory; he brings in raw materials from remote parts of the world; he buys machinery which has taken many years to invent, improve, and construct; he sets his labourers to work with his machinery on his raw materials, all of which he has paid for in advance out of his capital; he takes their products and scatters them far and wide over the world to seek purchasers; and then he must wait till the goods are sold and paid for. He produces on a large scale and for a market remote both in time and distance. The essential point is the time involved; from the first commencement of the process of production to the last stage of sale and payment months may pass. The manufacturer has to "lie out of his money" for a long time.

How capital produces.

The striking thing about this system is that it pays. The reasons will be explained later on; the fact may be assumed in the meantime, that long-period production on a large scale leads to far greater production. Out of the price of the product when it finally comes in, the manufacturer is not only able to repay to himself all that he has advanced, but he has something left over-interest on his advances; and this is only fair. It was only because of the manufacturer's capital that the system was possible at all. All those under him had to be paid as they went along. The producers of the raw materials could not wait any longer for their money. The workmen could not afford to wait for their wages till the goods were sold and paid for. They had to get their wages in cash. If, then, it is the capital that makes the system possible, and if the extra product is due to the system, is it not right that part of the profit should go to the owner of the capital?

Interest, then, is in this sense a payment for time, or a discount A payment against time. Time itself produces the interest, just as a barrel of wine set aside to mature acquires additional value simply through time. Interest rests on an acknowledged fact of human nature, that most men prefer a present good to a future one; they would rather have a little less just now than wait for something more later on. The man who has sufficient prospectiveness to see that waiting will bring the greater profit deserves the reward. Interest, then, is the price of waiting.

II. THE SUPPLY OF CAPITAL.—It remains to consider interest from the point of view of supply, as the necessary inducement to lead to the accumulation of capital; in other words, as the supply price of capital.

The idea which is at the root of all accumulation of capital is the investment of present effort in things to supply future wants. Now, in human nature the greatest inducement to such a sacrifice is the powerful motive of family affection. It is in the family relations most of all that the need of providing for the future emerges. and that the inducement is strongest. There is of Inducecourse always a certain hoarding instinct in men which may saving. lead to the accumulation of wealth for the mere wealth's sake, but that is not the action of a normal person. Most people save in order to provide for the future, either for themselves or for those who are dearest to them and are dependent on them. Note that this desire to save is largely independent of the hope of receiving interest; it is a matter of necessity due to the intense realisation of a greater future need. The payment of a few pounds per annum as an insurance premium may be none too easy for a young married man, but what would happen to his wife and family if they were left entirely unprovided for? The same few pounds a year then would make a much greater difference. Of course, the prospect of every pound being doubled by the long accumulation of interest strengthens the good resolution, but it is not the prime cause of it. It is a natural instinct that makes the child save the last few sweets at the bottom of the box

till to-morrow; there will not be any more of them to-morrow, but they will be sweeter because they are so few. It is, to anticipate the theory of demand, a case of the different marginal utility of present as against future uses. (See Chapter X.)

Necessary conditions.

To lead to the accumulation of capital, however, two things are necessary besides the faculty of foreseeing the future and realising the necessity of providing for it. These are (1) security and (2) the possession of a surplus.

Security.

(1) Security, that is, security that men will be allowed to enjoy in peace the fruits of their saving. This implies (a) security of protection from foreign enemies, that there is no fear of their savings being destroyed or taken away by a foreign invader; (b) security of good government at home, that they need not fear the injustice or greed of the government itself, as in the form of unequal taxation; and again (c) security of justice, that they may be safe against injustice from their fellow-men, because they can have recourse to a just and equitable court of law, which will readily enforce the due fulfilment of contracts; (d) lastly, it implies security of good investments, that safe and reasonably profitable investments can be had in which savings may be placed without fear of loss.

Modern conditions. In all these respects, but perhaps especially the last, England is peculiarly fortunate, indeed far more so than was commonly recognised before the War. Long immunity from foreign attack had created a feeling of security of which only the Zeppelin raids made us realise the value. The justice of our government was a thing every one simply took for granted like the incorruptibility of our judges. The atmosphere of the sanctity of property and of contracts had resulted in a high commercial morality, and it created a sense of confidence in gilt-edged securities and trust investments which was one of England's most valuable assets as the financial centre of the world. The development of joint stock companies provided an easy method of securing a large aggregate capital from many small individual investors, and at the same time by limiting the risk of each shareholder, enabled them to take great risks on small amounts, which made it possible

to find capital for speculative adventures. The stock exchanges Investment provide a system of markets for investment money, which make it possible at any moment, either to find an investment for spare funds, or to realise the amount invested if it is required for some other purpose. Finally, the modern system of banking provides, by means of deposits and discounts, not only a safe storehouse for money temporarily at a loose end, but also a great reservoir of short loan capital upon which merchants and manufacturers can draw by the system of discounts and advances for their temporary requirements in financing their business. Thus the supply of capital of all kinds has created the demand, and the profitable employment of the supply made it possible to offer the inducement which maintained the supply.1

(2) The Possession of a Surplus.—This does not mean that one must have more money than one knows what to do with, in order to save up capital. It is remarkable how many people with very slender incomes manage to save a good deal, especially when it is recalled that the education of a skilled artisan, and still more of a professional man, is simply an investment of capital by himself or his parents. Much has been done in modern industrial countries to facilitate the saving of small sums by providing safe Small investments, for example, savings banks, people's banks, mutual savings. banks, building societies, funeral and sick benefit societies, cooperative societies, trade unions, etc. Some of these serve a double purpose by enabling the members to borrow economically when necessary, as well as to save when they have opportunity. One of the discoveries of the War was the possibility of interesting the smallest investors in government securities through the sale of War Saving Certificates. The peculiar form in which the investment was offered (£1 for 15s. 6d.), thus, as it were, capitalising and enabling the lender to visualise the inducement offered, was a stroke of financial genius.

The accumulation of wealth in whatever form, and its devotion to capital, implies necessarily the sacrifice or postponing

¹ For a full description of the English Banking System see the same writer's The Mechanism of Exchange.

Effect of interest. of present gratification, and interest is the inducement that must be offered to make people undergo such sacrifices. It hardly needs arguing that the degree of willingness to undergo the sacrifice will depend largely on the strength of the inducement; that is, on the rate of interest offered. It is clear that an increase in the rate of interest will be likely to increase the accumulation of capital. Of course, there are some people who, as already noted, are so strongly imbued with the idea of saving against a rainy day that they would hoard money in an old stocking, even if there were no banks to put it in, or would put money in the bank even if they got no interest at all upon it; and again, there are people who, having made up their mind to save enough to give them a certain fixed income, will have to save more if the rate of interest falls. But, these notwithstanding, it may be taken that, generally speaking, the supply of capital depends on the inducement offered, that is, on the rate of interest obtainable.

Mobility of Certainly experience shows that if in one particular trade, capital receives a higher remuneration than in other trades, capital will tend to flow into that trade. In other words, capital has its supply price.

> Unfortunately the converse is not always so true; that capital will leave a trade where it does not receive a sufficient rate of interest. A manufacturer who has sunk his capital in machinery and buildings for a particular trade may not be able to shift it, because to do so would mean throwing away all his machinery as scrap iron. Rather than face such a loss. he may be content to go on working at a very low rate of interest. But here, too, it tells in the long run, for new capital will not go into such a trade. Thus, even in this case as certainly in the other, capital has its supply price.

is slow.

This will be clearer if it be kept in view that the supply of capital is not a stock or store of fixed amount, but a constant stream. Capital in the form of buildings or machinery, for example, is gradually but constantly being destroyed by wear and tear, or by mere lapse of time as things become old-fashioned, and it requires frequent renewal or replacement. At the same time, the supply of new capital from the gradual accumulation of savings is also constant. The continuous competition of the new supply and the new demand fixes the rate of interest, not Demand for only for them, but also for all existing bargains, the terms of capital. which are altered to the new level as occasion arises for their renewal.

Note in passing that the effect of a low rate of interest is to increase the demand for capital, because in many cases where it is doubtful whether labour or machinery would be the more profitable, the balance may be turned against the machinery on account of the high rate of interest, which, of course, directly affects the working cost of the machinery. But with a lower rate of interest the machinery pays, and is promptly substituted. Thus the lower rate of interest creates an increased demand for capital, which, of itself, tends to send the rate up again.

There have been many attempts to classify capital. The Classificamain points to be kept in view are (1) that the test of whether capital. or not a thing is capital at all, as well as the classification of it under one kind of capital or another, depends not so much on the nature of the thing itself as on the use to which, in the case in question, it is to be put; and (2) that these classifications of capital are never exclusive or permanent. What falls under one head at one time may at another time, or when looked at from a different point of view, be regarded as of a different kind altogether.

The main classifications are as follows: Capital may be of a kind which serves its purpose without immediate destruction. such as pictures, which we enjoy by looking at them, or a house to live in. These will be consumed or destroyed in course of time, though perhaps a very long time. It is difficult to find a "Enjoyname which properly expresses this idea. Marshall called ment "ment" capital. it consumption capital, because it consists of goods intended for direct consumption or enjoyment in their present form; but the name is peculiarly unfortunate, because the one point to be stressed in regard to such forms of capital is that they are not

consumed in a single use, but remain to be enjoyed over a considerable period. Perhaps the nearest approach to a suitable term would therefore be Enjoyment capital.

On the other hand, a large part of the capital used in trade is destroyed in the very act of use. The manufacturer when he commences business spends part of his capital in a stock of coal, which very soon is destroyed and vanishes in smoke; but it comes back to him in the form of goods made by his machinery.

Trade capital. Again, capital employed in business, which is usually called production capital or trade capital, may be divided into (1) fixed capital, such as machinery, buildings, etc., which exists in a durable shape, and the return to which is spread over a period of corresponding duration; and (2) circulating capital, which fulfils the whole of its office in the production in which it is engaged by a single use, such as the payment of wages or purchase of coals or raw materials, but is quickly recovered by the sale of the goods produced, and is available for employment over and over again even in the course of a year.

Fixed and circulating.

CHAPTER IX

ORGANISATION

What does it mean?-Its share in production-Association in production and division of labour-The economies of large production, external and internal—The sources of supply of organisation—Has it a supply price? -The nature of profits-The law of increasing return, or decreasing cost.

ORGANISATION, Marshall's new fourth factor of production, is in Meaning of one sense hardly a separate factor of production at all. rather the aggregation and co-ordination of the other three factors into the modern system of large-scale production, which is generally called the factory system, though that label is rather misleading, because organisation applies to other industries entirely outside of factories, especially agriculture. Again. organisation is really only capital in the hands of a very specialised type of brain worker; but this particular type of labour has come to form so large a class by itself, and its functions are so different from those of any other class and so essential to the very existence of the whole system (indeed they are just what makes it a system), and finally the method of payment of this class is so entirely peculiar to itself, that there is really no practicable alternative to treating it by itself, as Marshall did. It is admittedly very difficult to keep constantly in mind the distinction between the organiser as capitalist, whether the capital is his own or borrowed, and the same man as employer of labour and manager of the business; but the older economists fell into just as great difficulties through not making the distinction between profits, which are the remuneration of the organiser. and interest which is the reward of capital.

Once more the method of attack is to find out what organisation is, the nature of its functions and the service it renders to production, and the sources of supply of its component parts. The next step is to consider the nature of its remuneration, and how it is fixed; and, finally, whether in view of the character and sources of the supply it is likely to be affected by the reward obtainable, that is to say, whether organisation also has its supply price.

The entrepreneur.

It is unfortunate that there is no English equivalent for the French word entrepreneur (cf. enterprise), which expresses exactly the idea of the man who brings together the other three factors of production. Undertaker, middleman, contractor are all barred by their acquired special meanings, while employer (of labour) represents only one side of his multifarious duties. It seems, therefore, that one must make shift with the unsatisfactory word "organiser", though that also has its narrower meaning.

Logical development of division of labour.

Marshall's idea of organisation is really just an extension of the classical economists' idea of division of labour. The new name emphasises the fact that the modern organisation of production means much more than the mere subdivision of manual labour into separate tasks. It means the organisation of the whole system of production, including not only every kind of labour, from manual labour of the least skilled kind to the highest professional services, or the special skilled labour of the employer or organiser himself, but also nature's share in production, which is called comprehensively land, and the services of capital in production. The organiser is the employer of land and capital as well as of labour. The object of organisation is to set every kind of productive worker to the work for which he is best fitted by natural faculties or training, and to give him the best possible materials and tools for his work. If every man is put to the work which he can do best, and kept always at that work, he will become exceedingly proficient at it: and the result will be the greatest possible production, and the lowest cost per unit.

Specialisation.

Machinery is only the logical development of division of labour. It takes over those classes of work which have become so mechanical that a machine can do them better and more quickly than even a man who has been at that job all his life. But machinery, besides taking over the most mechanical kind of work, also enables men to do a great many things which human labour, from the nature of the work, could never do at all, such as the handling of huge masses of molten metal, or the reproduction of a large number of exactly similar parts of machines, where absolute accuracy is so necessary that it is hardly possible for human labour to do the work.

It is only in large scale production, as it is called, that such Machinery complete organisation is possible. It will not pay to put a man isation. to one particular piece of work and make him devote all his time to becoming expert at that, unless it is possible to keep him working constantly at it. It will not pay to put down a machine for a certain kind of work, unless there is sufficient work of that kind to keep the machine constantly employed; for a machine standing idle is like a man receiving wages without working. The running cost of a machine consists largely of interest on the capital invested in it, and that goes on all the time, whether the machine is working or not.

It is interesting to trace the development of the idea of association in production, in other words, the history of division of labour, which has reached its highest development in the modern factory system.

In the earliest forms of social organisation, when the family Historical or the tribe was the unit of society, there was very little room for ment. division of labour, because the whole tribe was engaged in one occupation, such as sheep or cattle rearing. But as men became less nomadic in their habits, and more settled in their occupations, division of labour became necessary. When agriculture became an important part of the occupations of the people, it was impossible for those who cultivated the crops to go hunting also. As the size and population of the settlements increased,

the separation of different trades became more marked, until the next stage of historical development was reached, the town system, when men lived together in villages or towns, each the centre of an agricultural district, and the tradesmen of the town supplied not only each other's wants, but also those of the farmers round about them, who in turn supplied the food and most of the raw materials required by the town tradesmen.

Home work.

In course of time these town tradesmen increased the size of their businesses, until they found it necessary to employ other men to work under them. At first these employees worked in their own homes, each finding his own materials and possessing his own tools; but instead of having to seek their own customers, they sold their product to the common employer, who took the risk of finding a market for it. This points to another striking feature of the development; the risk of finding a market had greatly increased. In the old days the craftsman made to order: he had his purchaser in view before he began to make the article. But with the widening of the market due to the increased size of the town, it became increasingly difficult for the craftsman and the consumer to keep in direct touch with each other. The tradesmen, therefore, had to make goods for stock, as a modern manufacturer would call it, and the consumers had to seek a tradesman who had in his stock the thing that they required. As the isolation of the towns became less marked, and the market widened to include the whole nation, instead of merely the town and the adjoining district, this home-work system, as it might be called, developed rapidly, and the size of the individual business controlled by one employer greatly increased. The next step was very natural. Instead of having the workers scattered over the district in their own homes, it was clearly more convenient and more economical to have them all collected in one place under common supervision. This involves another change in the relations between employer and employed; the workmen no longer own their own tools, nor provide their own materials: the master or employer finds all, and takes the whole product. It is a "wage economy"; the workers are now mere wage-

Early factories and the "wage economy". earners, paid their wages (before the goods are sold) by the employer, who becomes the sole owner of the product, and takes all risks in connection with it. This is the workshop or manufactory system, because a manufactory originally meant a place where things were made by hand; but the original meaning was very soon forgotten. The gathering of many workmen into one building naturally led to the adoption of mechanical appliances, of which all could get the use when required. The application of power, at first water followed by the steam-engine, and the invention of machines in every trade to which Power and power could be applied, rapidly transformed the little workshop into the huge factory, with its enormous capital sunk in machinery, and its vast number of wage-earners, all working under the marvellous organisation of the factory system. The whole system is now centred in the employer, or entrepreneur, who organises the whole business from beginning to end. Under the guidance or compulsion of competition, he determines the commodity to be produced, he finds the capital, builds, buys, or rents the buildings, invents or buys the machinery, selects the raw materials, employs the labour, and regulates and controls the whole production. Then he also organises the system of sale, scatters the goods broadcast over the country or the world. seeking purchasers by every possible means, and, finally, he collects the price, repays his advances, and keeps the balance. if any, as his profit. The organiser is the middleman who brings together the three factors of production, land, labour, and capital, and places their joint product at the disposal of the consumer.

It is at this stage of the system that the need arises of a whole The organising class. class of special workers who, while they themselves produce nothing in the sense of manual labour, are the brain of the whole business of production. The duties of the organiser are so multifarious that he requires a whole army of deputies to carry them out, and he himself becomes the organiser of the organisers. Their business is to make all the necessary arrangements to secure the desired co-ordination and the maximum efficiency of every unit in the whole scheme of production. Inside the

Factory organisa-

factory the objects of their administration are (1) to synchronise the progress of each part of a job through all the different departments, so that, for example, in the construction of a locomotive, every part of the engine will reach the assembly shop just when it is required to be fitted into its place, and there will be no delay in completion, for time is money; and (2) so to arrange the number of machines and men in every shop, that none will ever stand idle for lack of work to do, yet no job will ever be held up for lack of them. The "layout" or "routeing of the shop" must be carefully planned to secure the most convenient passing of every job from one stage to another, with the minimum of labour and time. Materials and tools must be available at the moment when required, the latter kept in constant repair to secure the highest efficiency, and the former checked to prevent waste or loss by pilfering, etc. Finally, a whole system is required to check and pay the wages due to each man according to his grade or output, and at the same time the detailed cost of every job, separating every item in that cost, must be carefully recorded, so that the profit or loss on each job may be ascertained for future guidance. This question of factory costing alone has become a huge department in modern factories.

Functions of the organiser.

Outside of the factory the work of the "office" includes the purchase of all raw materials and supplies of every sort, involving intimate knowledge of market fluctuations, including speculative possibilities, which may make or mar the whole business. Finally, it is their business to sell and distribute all the products of the factory, which involves not only the selling of what has been made, but also knowing what kind of goods will sell, including questions of design, style, and materials as in dress goods, and the relation between the prices at which goods will sell, and the prices for which they can be made. In some cases, owing to cost of advertising, commissions to agents and the maintenance of a staff of travellers, the cost of selling the goods is actually more than the cost of making them.

It is not surprising, therefore, that a huge staff of so-called unproductive workers is required to carry on a big manufacturing

business, and the next question is how it pays. How is it that Economies this system of production on a large scale can so reduce the unit production. cost of production that an article which if made singly by hand would cost 5s. can be turned out in thousands to sell at 6d.? People are so accustomed nowadays to the idea of the economies of large production that they never stop to think how it is done, or exactly where the saving of cost comes in. It is because things are made by machinery, they say, but does that alone account for all the difference?

The advantages of large-scale production may be divided into two classes—(1) external economies, the advantages due to the fact of having a large number of employers in the same industry collected in one district, which is called a localised industry, like cutlery in Sheffield, or lace in Nottingham; and (2) internal economies, the advantages of a large factory devoted to one industry.

The advantages of a localised industry may be stated as Localised follows: (a) Where the bulk of the population of a district is devoted to one industry, there is always a good market for the kind of skill required, whether it be regarded from the point of view of the workers, who have always plenty of masters to choose from, or of the masters, who have always a plentiful supply of workmen to draw from. (b) Subsidiary trades, that is, trades connected with the staple industry, spring up readily round a large industry to supply their tools and accessories, or perhaps put their raw materials through the initial stages of manufacture. (c) In such a district the interests of all are so much alike that the atmosphere of the place is full of the technicalities of the trade. Trade topics are freely and intelligently discussed. Workers and masters alike can compare notes and get the benefit of each other's experience. Inventions are more likely to be made in such districts, and, when made, are more likely to be taken up, because their value is quickly recognised. Again, this trade atmosphere has its effect on the supply of labour. The children grow up hearing trade topics discussed, they naturally go into the same trade as every one else, and they pick up the

work much more quickly than a youth brought from other parts.

Their drawback Localised industries, however, have one great disadvantage. There is only one kind of labour required in the district. If, for example, the work is so hard as to be fit for men only, there is no employment in the place for women or young persons; and if by chance something should go wrong with that principal industry, the whole community is affected. There is no other work to fall back on, and the whole district is faced with starvation. The remedy for this is to encourage supplementary trades in such a district—that is, other industries which can take up the supply of labour which is not wanted for the staple industry. This is a natural development, because the mere fact that such labour is available tempts those who could utilise it to plant their industries there, for the very purpose of getting cheap labour.

and the remedy.

Internal economies.

The internal economies of a large factory bear more directly upon our question. They may be regarded from three points of view as follows: (a) The cheapness of factory production by machinery, as compared with hand production, as in the case of a printed book against a handwritten missal; (b) the advantages of a large factory as against a small one; and (c) the effect on cost of production of the factory running full time, as against the same factory on half-time. In all these cases similar considerations arise, and these may be classified as follows: (i.) Economies of labour are practically the same as the advantages of division of labour already noticed. They consist in setting each man to the work he is best fitted for, and keeping him at it till he can do it in the best possible way. This applies to every grade of employment, to employers and foremen, as well as the lowest labourers. It would be waste to set a man who had a good head for business to work with his hands. If he has the capacity for superintending and organising others, it pays to put him to that kind of work, for a good foreman is always worth his wages in saving waste of time and materials by those under him. And the larger the factory, the smaller in proportion is the number

Labour

of overseers or foremen required. The overseer of all is the employer himself; and the ideal of organisation is to arrange the details of management so that, delegating the minor work to competent men, the employer is free to attend to such matters as watching the markets, buying and selling, and general supervision of everything inside and outside of the factory.

(ii.) Economies of power and machinery are only possible in Power and large factories, because, in the first place, small producers have not the capital to buy new machinery, and second, even if they had, they have not the means of utilising it fully. Nothing marks so distinctly the superior organisation of a large business as the readiness to adopt the best machinery, to "scrap" an old machine without hesitation when some improvement has been discovered, to recognise that spending money wisely and freely is the truest economy. But it is only big men with plenty

of capital who can afford to adopt these heroic measures.

(iii.) The economies of material are mainly due to the waste utilisation of by-products, as it is called. The discovery of products, means of utilising and making money out of what was formerly regarded as waste is one of the most striking things in modern industry. Many industries are now kept alive only by the profits realised from these by-products. Waste in a modern factory is almost unknown; there is some use for everything, if it can only be discovered.

Again, a large factory can afford to make special arrangements for handling waste which would not be worth while in a small shop with a small output. In a big engineering shop, where brass and copper turning are done in separate shops, the scrap metal from each shop is sold separately for its full value; and it is worth while to have special centrifugal machines which recover the oil from the turnings, and even from the engineer's cotton waste, which can then be used again.

(iv.) Again, the fact of being a large producer and consumer Marketing enables the manufacturer to effect economies in many small ways. Being an important customer, he always gets the best terms from all those with whom he deals. A man who buys in

large quantities can buy cheaply; and he can afford to make special arrangements for handling both his raw materials and his finished products, securing cheap freights and prompt handling of his goods.

Oncost v. prime cost.

(v.) The principal gain of the large producer, however, which in a sense embodies all these other classes of saving, is the reduction of what is called "oncost" as against "prime" cost. The latter includes such items of the total cost of production as raw materials and labour, which increase in direct proportion to the output. Oncost charges, or, as they are variously called, standing charges, running costs, establishment or overhead charges, are those which must be met whether the factory produces much or little, such as interest on the cost of buildings and machinery, power, lighting, supervision, office expenses, advertising, etc. Some of these, especially interest charges, are not affected at all by an increased output; others, such as supervision and office charges, very little; while even on power the increased cost may be much less than in proportion to the rise in output, especially when it is a case of machines standing idle that can now be put in commission—the power to run them was there in the main engine and shafting, but was not being utilised. If the resources of the factory are fully utilised and the output raised to the maximum, it is obvious that the percentage of these oncost charges, which must be included in the cost of each article produced, will be much less than if the factory is running only half-time, or if the output is restricted owing to want of orders. It pays, therefore, to keep the factory working at its highest limit; the greater the output, the lower is the cost of production of each article. In this respect the large factory always has a great advantage over the small business. The owner of a large factory can afford to spend far more on organisation of the business, on advertising or pushing trade, and still have a lower percentage of oncost owing to his enormous turn-over.

Effect on price.

While, however, the advantages of large factories are great, so great, indeed, that the present tendency seems to be for them

to replace entirely the small producer of the old days, yet there Advantages are signs that the maximum profitable size of a single factory industries. is being reached, and even that the day of smaller industrial units is returning. There are no doubt many points in which the small employer has the advantage over his big competitor. In a small factory the master's eye is everywhere; there is less opportunity for slacking, less need for complicated systems of checking and of book-keeping, and less likelihood of mistakes. There are signs of a reaction which may bring back the day of small factories, especially through the development of cheap electrical power. The utilisation of water power for the production of electricity in large central stations, from which it can be distributed over fairly long distances, and the development of local traffic by motor waggons, may revolutionise industry again and bring back something more like the old days, when population and industry were spread over the whole country, instead of being herded into great towns, to the detriment of all concerned.

Throughout all this discussion of the system of large-scale Dual production it is well to remember that the functions of a large of the employer are twofold. In the first place, he is a purveyor of production; his business is to organise industry and capital in order to produce what the consumers require. As such he is paid by the consumers a price sufficient to cover his cost of production and leave him a reasonable remuneration for himself. But he is also a leader of men, a captain of industry, the provider of work and wages for the immense army of his employees. The object of all his organisation is to keep them employed, and to provide a living for their wives and families. From their point of view he is only an employee like themselves, employed by the organisation, and paid a share out of the total product for that purpose.

Consider next the supply of organisation. It involves two supply of elements: (1) the possession of those faculties of superintendence tion. which are necessary for the conduct of a large business under-

taking, and which may be called business ability; and (2) the possession or control of capital.

Business ability.

What is this mysterious quality of business ability, which is the supposed hall-mark of the business man? Is it some natural or inborn power or predisposition, so that a business man, like a poet, is born not made, or is it merely the result of training? What is the peculiar mentality of a good organiser; or can it be acquired by any one who has the opportunity and will take the trouble to learn? Probably the truth lies between these two opinions, but the writer leans to the latter. There may be to some extent a natural predisposition to business, but that would never develop without the proper training. Business ability may be genius in Carlyle's sense of an infinite capacity for taking pains, but its chief component is a capacity for hard work combined with initiative, self-reliance, and the capacity to take risks wisely. Perhaps the fundamental thing is the ability to "think ahead", the faculty of visualising future needs. of foreseeing possible developments and laying plans to provide for them. It involves a thirst for knowledge of all kinds, because one never knows when it may be useful. It is not a subject taught in universities, but it is certainly not opposed to the professional spirit. Above all things it does not involve, as many people still seem to think, any elasticity of conscience, any disposition to overreach or take advantage of the other fellow if possible, for in modern times men have realised that honesty is the best policy in business as elsewhere.

The supply.

Whence, then, comes the supply of such super-men? Of the best it can hardly be large, yet the sources of supply are very wide. There is no academic or professional "eye of the needle" through which men must pass into the trade. The qualities above described are not beyond the reach of any man of intelligence and ability who is not afraid of hard work. These qualities are only developed by good training in early life, and by experience; and they are most likely to be found in industrial countries among the great body of the middle classes. It might be thought that the sons of business men would have an advantage, but it is a

striking fact that a good business seldom remains in one family for three generations. Many of the best business men have worked their way up from the ranks. Now, as the classes from which the supply of business ability is drawn are so large. it is clear that the potential supply will be abundant. All that is needed to bring forward a supply of men ready to take up a new trade is the prospect of making a reasonable profit in that trade: in other words, business ability has its supply price.

Can the same be said of the capital; will the good man with Finding the a good idea always be able to find the capital required to work it? Certainly the tendencies in modern industrial countries are all in favour of his doing so. The enormous development of joint-stock companies and of modern banking facilities, by which business men can borrow capital on easy terms, the facility with which capital moves abroad wherever it can find a good field, and the general improvement in public confidence in industry, have revolutionised the financial position of industry, and have made it comparatively easy nowadays to obtain capital for any good scheme. Again, the development of government and municipal undertakings, the growth of large industrial units and combines, and the extension of co-operation, have provided many opportunities for good men without capital of their own to find positions of trust and large salaries in such employment. Thus we may safely say that, with the facilities which are now to be found in all industrial countries, the supply of capital will always be forthcoming when the opening for it and the capacity to make it profitable are proved to exist. The result is that if a man has business capacity, and a business showing good prospects or a good idea for some new line of business, he will be able to find the capital—in short, organisation has its supply price.

It remains now to discuss the most difficult question of all, The nature namely, the nature of profits, which are the remuneration of the organiser, and how that remuneration is determined. In dealing with interest in Chapter VIII. we analysed the gross surplus of a manufacturing business in order to ascertain exactly what is

Further analysis of gross profits. interest. That analysis must now be carried a step further by considering in greater detail the division of the gross surplus between the employer or *entrepreneur* and the capitalist.

Assume that the capitalist and the employer are not the same person, that the shareholders supply all the capital, including the money to pay for the buildings, machinery, and stock, and the working capital to finance the business, and that they take the whole risk attaching to the capital, while the organiser contributes nothing to the venture but his brains, his ideas, and his hands. In such a case, what would be the division of the gross surplus of £2000 between these two?

The first item of £500 for replacement and renewal of capital clearly belongs to the owners of the capital. The item of £400 for interest is also theirs without question. The item of £600, being the salary of the *entrepreneur*, the remuneration of his business ability, goes to the organiser as a matter of course.

The difficulty lies in the item of f_{500} which was set aside as a reserve fund. The risks which this is intended to cover may be separated into two classes—(1) The first year, it was said, may have been a particularly good one; future years are not likely to be so good. In other words, the fact must be kept in view that a manufacturer's profits vary, and that in a good year he ought to get something extra in order to cover the risk of getting less than his supply price in bad years. (2) There is also the risk that in some years there may be a heavy loss of capital by bad debts or bad stock, destruction of machinery, accidents to workers, and the like. In other words, capital invested in business runs a greater risk than when invested in what are called gilt-edged securities, and it must be paid for accordingly. A man who can get 4 per cent for his capital in a safe investment is not likely to risk it in a business, even a fairly safe one, for less than 6 per cent. The reserve fund may therefore be divided between the organiser and the shareholders, in the proportion of £200 to the capitalist and £300 to the employer. This means that the shareholders have received in all 6 per cent interest on their money (not counting the 5 per cent set aside for depreciation

Risks and their reward. and renewal), while the organiser has received food as his share of the profits for the year—that is, £300 more than he had counted on as the supply price of his business ability.

This extra payment to the shareholders for risk points to the The share fact that under actual conditions the whole risk does not fall on capital. the organiser. The owner of the capital must take a share of it, more or less, as the case may be, and should receive a higher rate of interest accordingly. The exact apportionment of this riskpayment and the share of it that goes to the owner of capital as such is of course a matter of arrangement. If the organiser undertakes to relieve the capital-owner of all loss, as he may do with a sleeping partner, or if he simply borrows all the capital 'which is hardly conceivable), then the capitalist's share of the risk-payment should be the absolute minimum; but the chance of loss can never be entirely eliminated, and if the organiser had no capital of his own his obligation to relieve the owner of the capital from loss would be worth very little.

In the case of a limited company the different classes of Sharelenders or shareholders are paid according to the degree of risks. risk taken. Thus debenture-holders are simply creditors, and if a sufficient security is specially "ear-marked" to cover their debt, the risk is very small, and they therefore receive a very low rate of interest. The holders of unsecured debentures, however, which are covered only by a general charge on the assets of the company, are no better than ordinary creditors for goods supplied; but they come before any shareholders in the event of liquidation. The latter are usually classified into Preference and Ordinary, the former being entitled to first payment both of dividend and (as a rule) of capital; and they have therefore to be content with a moderate rate of dividend. The balance remaining (if any) then goes to the holders of the ordinary shares, and if it is large they may receive far more than the preference shareholders. There may, however, be a still further class of various capital, sometimes called Deferred shares, or in other cases shares. Vendors' or Founders' shares, which receive nothing till all the others have received their quota, but may then come in for a

Reward of the organiser. share (usually with the ordinary shareholders) of the residual profits. This is a very common arrangement when a going business is converted into a limited company and the services of the original owner of the business are retained as managing director; and it points to the fact that, where the success of the business is largely dependent on the efforts and ability of one man, it is advisable that he should have a right to a share in any surplus profits, or there will be none. Sometimes a similar result is secured by the payment of a bonus to the managing director. This, therefore, brings us back to the crucial question of the remuneration, not of the capitalist who gets his share of the profits for bearing risk, but of the organiser, who in the true sense takes the risks because he alone determines what risks are to be taken.

Returning, then, to our illustration, the extra £300 which goes to the organiser must be examined more fully. What does it represent, and what is its nature? It is obviously not the supply price or remuneration of business ability, because that was already covered by the £600 first set aside for the employer.

Nett profit.

The explanation lies in the fact that employers' profits vary very much. Manufacturing involves a large element of speculation, because the manufacturer must forecast the needs of the consumers, sometimes a long way ahead, and do his best to supply them in advance. The risks of such a method of business are great, and the profits ought to be correspondingly high. The secret of the nature of the employer's profits lies in the element of luck, or speculation; he may discover something which will give him big profits for a time, some patent invention or secret process, some special idea for turning out his goods more cheaply than his neighbours; he may strike a good idea in advertising which will catch the eye of the consumers and bring him good trade, or he may be the first to think of some new opening for trade, some new use to which a well-known commodity may be put. Whatever be the exact cause, the result is something of the nature of a lucky hit, some special ability shown by the employer himself, or else pure luck. It is therefore

of an entirely different nature from the remuneration of business ability, or the interest on capital, each of which is a supply price. This is not a supply price; it is a surplus, a rent, analogous to the rent of land. Marshall therefore called it the quasi-rent of business ability.

But why quasi-rent; why not simply rent? The answer Aquasi-rent is that there is a difference between the two, which is both theoretically and practically of great importance. Quasi-rent profits are not, in most cases, due to any natural causes or inherent qualities in the things which the employer uses. They are rather due to some special ability on his part, or some special chance which is of human agency; and this involves an important result. The inherent qualities of the soil, which are the cause of real rent, are permanent; they may be modified by human agency, but cannot be obliterated; and so long as they remain, rent will remain, for rent is a surplus due to the possession of a superior instrument; and as long as any superiority remains, rent will continue. But the quasi-rent of the employer is different. His superiority is partly the result of chance, and is not a monopoly. It is likely to be more or less temporary, because his secret will soon be discovered, if, indeed, it be any secret at all, and competitors will come forward to get the benefit. The result is that his superiority vanishes, because every Its imperone else has taken up the same idea, and his quasi-rent vanishes manence. with it. The competition of the new supply soon forces him to cut his price and sacrifice the extra profits which he was making at first. Thus the quasi-rent profits are like rent of land, because they are of the nature of a surplus, but they are unlike land rent, first, because they are not due to any natural or inherent superiority, but mainly to chance, and second, because, from their very nature, they are only temporary.

This difference between quasi-rent and real rent results in a peculiar position; these quasi-rent profits may actually become a negative quantity. It has been shown how difficult it sometimes is for the employer to shift his capital from one trade to another, and this has a direct effect on profits. If a trade is depressed,

Negative profits. so that the rate of profits is steadily falling off, the result will be. in the first place, that the quasi-rent profits disappear; then if things continue dull, the employer finds his profits shrinking still further, till, after paying interest on capital, etc., he has not his own £600, his supply price, left clear. That is unfortunate, but he cannot help it, and half a loaf is better than no bread. It is better to keep the place running at cut prices which cannot bear their due share of oncost, than to close the place down even temporarily, when the whole of the oncost charges would become dead loss. Short of accepting prices actually below prime cost, he is better to carry on if he can. and hope that the depression will pass before his reserves and his credit are completely exhausted. To close down permanently would be the final confession of failure, involving complete ruin. He has made himself responsible for f10,000 worth of capital, all of which is sunk in the business; and most of it is irrecoverable, because to clear out the machinery would involve selling it for scrap iron and getting practically nothing for it.

What is he to do, then? He must choose the lesser of two evils—go on and let his profits go. The capitalist may have to bear his share of the loss by accepting a lower rate of interest or going without altogether for a time; but the employer's profits are the first to fall. Instead of making a surplus or quasi-rent over and above his supply price, he is now actually making less than his supply price, less than he used to earn as an employee elsewhere. His quasi-rent has become a negative quantity; his surplus has become a deficit.

The employer's loss.

Of course, this state of affairs cannot be normal. If a trade sinks into that condition permanently, capital will be withdrawn from it, whenever possible; at least no new capital will go into it, and the trade will gradually die out. But it has been the experience of many trades in past years, and it always will be the experience of the worst manufacturers in any trade, when their rivals are adopting new methods; the owners of the older mills who cannot or will not adopt the new labour-saving

and economising ideas must go to the wall. They may struggle on for a time at a loss, but unless they change their methods the end is certain.

It is just this speculative character of business, the "hit or The element miss" aspect of it, that appeals to a certain type of men, like a game of chance. There is the feeling of staking one's wits and skill, and knowledge of the trade and of the world, against all comers, and coming out on top. It is the sheer desire to excel, which is one of the strongest motives in human nature, as well as the resulting profit, that appeals to these enterprising spirits. to whom a safe job with a good salary and even a pension would not appeal at all. They would rather take a big risk, with the chance of making a big success out of it, than keep on the dead level of safety with nothing to be gained by doing one's best, or better than the man next door. If this adventurous spirit can be combined with the professional spirit in business and The proindustry, by cultivating the feeling that the highest reward a ideal in business man can seek is a reputation for the character of his goods as well as for generous dealing with his employees, and that this may be attained along with a competence for himself and a fair return to his shareholders, then there will be hope for business as the greatest and most fascinating of all professions.

This finishes the last of the four factors of production, and looking back over them, a striking difference calls for notice. In dealing with land it was shown that the yield of nature to man's labour is ruled by the law of diminishing return, or as the writer prefers to call it, the law of increasing cost. But now, looking back over the human factors of production, labour, capital, and organisation, there is apparent an entirely different tendency, which is called the Law of Increasing Return-the Law of greater the amount of labour and capital applied to manufactures return or the greater in proportion is the return received. This is the result cost. of the economies of large production, the advantages of the factory system of production on a large scale, and by analogy it would be better described as the Law of Decreasing Cost.

Effect on cost of production.

This law, then, acts contrary to the law of diminishing return or increasing cost, and these two laws exercise an important effect on cost of production. If the selling value of an article. such as a woollen shirt, consists largely of the price of the raw materials, then an increased demand will raise that price and consequently the total cost of production. But if the proportion of raw material is comparatively small, as in most mechanical goods such as a typewriter, and the bulk of the cost is in the manufacturing, then the greater the output the lower will be the unit cost of the article. In other words, the more of these goods the public can be persuaded to use, the more cheaply the manufacturer will be able to turn them out. Because they are sold so cheaply, the public buys so many of them that the output of the works is incredibly large, with the result that costs are cut down to such an extent that it pays to sell them at the price; there is the beneficent circle of large-scale production.

Laws of supply.

These, then, are the Laws of Supply: (1) The quantity of any commodity produced depends on the price obtainable for it, but (2) the effect of increased production on price depends on whether the cost of the article is mainly the value of raw material, or mainly the cost of manufacture. If the former, then according to the Law of Increasing Cost, the greater the quantity required, the higher the cost of production will go; but if the latter, then the greater the output, the lower will be the unit cost of production.

CHAPTER X

DEMAND

The nature of human wants-Law of diminishing utility-Marginal and total utility-Demand price-Law of demand-Marginal utility of different commodities - Marginal utility of money - Elasticity of demand-Consumer's surplus or rent.

In dealing with supply, especially of the products of land, the Analogy of idea of the margin has been explained, with the rather elaborate terminology with which Marshall invested it. The next step is to see how he developed the application of similar ideas to the other side of the equation, demand or consumption, using analogous terminology. Just as, in the case of land, the whole theory was based on a natural law called the Law of Diminishing Return, which regulates nature's part in production, so on the side of demand the whole theory is based on a law of human nature, called the Law of Diminishing Utility, which regulates man's desires in regard to commodities of all kinds. Demand is based on human desires; it is the expression of human wants, and might be described as effective desire. It means something more than the mere hopeless wish for things which one knows one can never afford. It is rather that one means to have the thing, if the price is at all reasonable.

The inquiry into the nature of human wants brings out two Nature of main characteristics—(1) Human wants as a whole are absolutely wants. unlimited; there is no end to human desire for commodities of all kinds. The development or growth of human wants is a process of evolution, because every want leads to efforts to

Wants and

satisfy it, and these efforts develop new powers in man. These again give rise to new wants, suggested by the new powers of production, and these again lead to new activities and new powers, and so on in a never-ending progression. It is like an expanding spiral; as man rises in the social scale and his powers over nature increase, his wants increase continuously in number and intensity. Take the simplest example of primitive man's requirements in food. At first he is content with the fruits which nature offers with the minimum of effort, such as nuts and berries growing on low bushes or cocoanuts found on the ground. As the supply of these becomes exhausted, he finds a method of climbing the tree to get more cocoanuts, and then he finds that there are other trees to climb, and that climbing is useful for other purposes than the search for food. He sees fish in the shallow waters, and invents a hook and line with which to catch them; then led by the desire to follow the fish into deeper water, he invents a raft, which he finds useful for other purposes in moving about over the water. The application of fire to food opens up new possibilities, and so on. In our own day men have been doing the same kind of thing when they developed the possibilities of cheap marine transport, and extended our food supplies enormously both in quantity and variety, especially when refrigeration enabled them to carry perishable commodities from the ends of the earth. The same is true of every other want. Our notions of housing, clothing. decoration, recreation, travel, literature, and everything that makes civilisation, are the result of centuries of development: every new discovery suggests new uses to which it can be put. of which perhaps electricity (especially wireless) and petrol are the most striking in modern times.

Evolution of new wants.

(2) On the other hand, each separate human want is strictly limited. The amount of any commodity which a man can consume or enjoy within any period of time is limited. He cannot eat or drink more than a certain quantity at any one time. One can always have too much of a good thing. No matter how desirable a thing may be at first, there is a certain

quantity of it which is enough; more than that would be useless. or even positively distasteful. This fact of human nature Marshall dignified by the name of the Law of Satiable Wants, but it is doubtful whether it is really worth it. It is not a law Each want in the proper sense of the word; but it does lead up to a very important statement or law. This limit of capacity to enjoy, or point of satiety, is not reached all at once after a period of uniform enjoyment; on the contrary, the point of complete cessation of desire approaches gradually; the more a man has of any commodity the less anxious he is to get more of it; the more he has already consumed, the less keen is his appetite. In technical terms the amount of utility derived from each new increment or addition to one's stock becomes less as the stock increases, or, in other words, the more one has already consumed of a particular commodity the smaller is the satisfaction to be derived from the consumption of a further quantity. Here, then, is the first step in the development of the theory of demand, which is called the Law of Diminishing Utility: every Law of addition to one's stock of any commodity gives less additional utility. pleasure or utility.

It will be remembered that the corresponding statement of the law of diminishing return from land was qualified by the preliminary words "beyond a certain point", and some economists have thought fit to apply the same idea here, by pointing out that there is a similar period of increasing utility before the downward movement begins. Thus they say when a man is very thirsty, an exceedingly small quantity of water is of little value to him; it is simply tantalising his thirst; not till he can command a considerable number of these small doses, sufficient to make one good drink, does he get any real satisfaction out of it. This is theoretically true, but it is rather an unnecessary refinement of the idea, and may be merely noted in passing.

Marshall then proceeded to clothe this idea of diminishing utility in a uniform of terminology following the analogy of land. The last addition to one's stock which is just worth having he Terminocalled the marginal increment, and the utility derived from it,

The margin

the marginal utility. Tevons, Marshall's predecessor in the introduction of this idea to English Economics, called it the final utility. It is obvious that this marginal utility will be extremely small; it is the last of a series of descending units of utility; and the aggregate of these diminishing utilities will be much greater than the amount which would be arrived at by multiplying the marginal utility by the number of units. In order to represent this last idea Marshall coined the name Total

Total utility. Utility, which is the sum total of the decreasing utilities of all the increments from the first down to the last or marginal increment. This idea may seem of little practical use in the meantime. because it is impossible to measure each of these decreasing units of utility, and therefore their total; but the idea is made use of later on in a practical way, and must therefore be remembered

Turning to the practical application of this idea of marginal utility to the determination of price, it is obvious in the first place that if a commodity were to be had for nothing, every man would go on adding to his stock of it, until at last he had so much that he would not wish to have any more of it, even for nothing. It might be a long time before he reached that point (what is the limit of a boy's capacity for strawberries or ices?), but sooner or later there would come a time when he already had as much as he could possibly consume, so that more would be absolutely useless, and to be compelled to consume more would be positively distasteful or even hurtful. The marginal utility in this case would be the smallest possible; the utility of the last increment. which was barely worth having, would be just above zero.

Marginal utility and price.

In real life, however, men have to pay for most things that are worth having, and the law of diminishing utility must be applied to actual conditions. As before, every new increment to his stock of any commodity gives the purchaser less additional pleasure. The more he has already, the less anxious he is to increase his stock, and the lower will be the price he is willing to pay for a further supply. As the utility of each new increment decreases. the point gradually approaches at which the utility derived from another increment will be less than the price it costs.

Clearly the wise man will stop just before he reaches that point. It would be foolish to buy more, when the utility he might derive from it is less than the price he has to pay for it, or in common language when it is not worth the money. The price Marginal paid for the last increment is his marginal demand price.

It is clear that if the price of an article is small, the marginal purchase will not be reached for a long time, whereas if the price is high, the limit will be reached much sooner. If it were usual to buy things one by one, bargaining with the seller afresh every time, and only being tempted to buy one more by his offering to reduce the price, it would be easier to realise the working of this process of adjustment of the quantity purchased to diminishing utility and price. As a matter of fact there are cases in which one buys on such a system, viz. in buying by Dutch auction, Dutch where the auctioneer begins with a high price and works downwards till he finds a bidder. If a large stock were put up in this way one at a time, the result might easily be that one buyer would pay a series of diminishing prices for his various purchases: but even there he would ultimately reach a point at which he would not want any more at any price.

That, however, is not the usual method of doing business. Prices are fixed and advertised; and men buy more or less according to their needs or desires, and the price. But the theory above described is at the back of their mental process all the time. If the price is high they will buy none at all, or only a very little; if the price comes down they will buy more. The idea of "demand price" is that at each price there is a certain quantity the consumer will buy, and that quantity increases as the price falls. This may be represented by what is called a demand schedule, showing how at different prices a man would be willing to buy different quantities of any commodity; the higher the price the smaller will be his demand. On applying this idea to the whole community, by aggregating the various demand schedules of all the individuals who constitute the Market market, it is possible to construct a composite demand schedule schedule, of the whole market. From this a general Law of Demand

Law of demand.

emerges. The greater the quantity of any commodity offered for sale, the lower will be the price it will fetch; or to put it more definitely from the point of view of the buyer, the greater the quantity the seller wants to dispose of, the lower will be the price at which he must offer it, in order to tempt sufficient buyers; or briefly, the lower the price, the more will people buy.

The effect of this law on price is obvious. The price which merchants can get for a commodity depends on the supply. If they have a large quantity to dispose of, they must make the price small, so as to tempt plenty of buyers. If they have only a small quantity to dispose of, they will be able to get a high price for it. Or, to put this into economic language again, it is marginal utility, the demand price of the marginal consumer. that fixes price, from the side of demand. It is the marginal consumption that the merchant must consider. Every time the price is lowered, it brings in other buyers who were unable to buy at the high price, while at the same time it tempts those who were already buying a little to buy more. The lower the price. the wider is the area of demand, because the margin is pushed further out. The shopkeeper, therefore, must so adjust his price that the demand will equal the supply. To do this he must know the demand schedules of all his customers, so that he can estimate the demand schedule of the whole market; for the demand schedule of the market is the aggregate of the demand

Marginal consumption fixes price.

Marginal utility of different Another practical application of the idea of marginal utility will be found in considering the comparative utility of the different uses to which a commodity can be put, or the comparative utility of different commodities to one individual. It has been shown that a person, considering how much of a certain commodity he ought to buy, will carry his purchases just so far that the utility of the last increment purchased will be at least worth the price he pays for it. As a matter of fact he generally stops much sooner than that. Often he has to be content with only a small quantity of a particular commodity of which he would like to have more, and which is very well worth

schedules of all the individuals composing it.

the price (that is to say, the marginal utility is greater than the or different price) because he "can't spare the money". The explanation comis that there are other things which he also wishes to buy, but which he would have to do without if he bought too much of the first commodity, and a little of these others is better worth the money than a further supply of the first. In other words, he considers the marginal utilities of the different commodities upon which he might spend his money, and buys just so much of each as to get the greatest possible total utility out of his expenditure. He does this by so arranging his purchases that he gets the same marginal utility, or the same excess of marginal utility over price, for his last increment of each commodity. If he buys too much of one thing, then according to the law of diminishing utility, the utility of the last purchase of that commodity will be small. It would have paid him better to spend the price of that last increment on something else, of which the utility would have been greater because he had not so much of it.

A particularly difficult application of the idea of marginal Marginal utility is that in the case of money. How can it be said that the money. value of money is subject to the law of diminishing utility? Can any one possibly have too much money? The difficulty is due to the fact that money is not one commodity; it is a concrete representation of every commodity that money can buy. If money were merely pieces of gold which could only be used for hanging round our necks or on our watch-chains, the limit of its usefulness would very soon be reached. But when it is remembered that money means power over goods, that these coins can be exchanged for almost every kind of enjoyment or satisfaction, then it is apparent that it is almost impossible to reach the point of satiety. The idea of marginal utility, however, does apply even to money, in this way, that the value of money is obviously greater to a man who has little than to one who has a great deal. A wealthy man will think nothing of spending a pound, while to a poor man it is a large sum, not to be laid out without careful consideration of the

different uses to which it might be put.

Elasticity of demand.

In considering how demand varies according to the price at which a commodity is offered for sale it is necessary to keep in view what is called the elasticity of demand. The effect of a change of price on the sales of a commodity may vary greatly. There are some things for which the demand would not vary much although the price rose or fell a good deal, while in the case of others a slight rise or fall in price would make a great difference in the amount sold. The demand for a commodity is said to be elastic when an alteration of the price makes a great change in the consumption. On the other hand, it is said to be inelastic when, although the price rises or falls considerably, it makes comparatively little difference in the turn-over. It is noticeable that demand is generally very inelastic in the case of the opposite extremes of absolute necessaries or pure luxuries, or when the price of the commodity is either very high or very low, while elasticity is greatest when the price is moderate, or when other things are obtainable which serve the same purpose, that is to say, when substitutes are available.

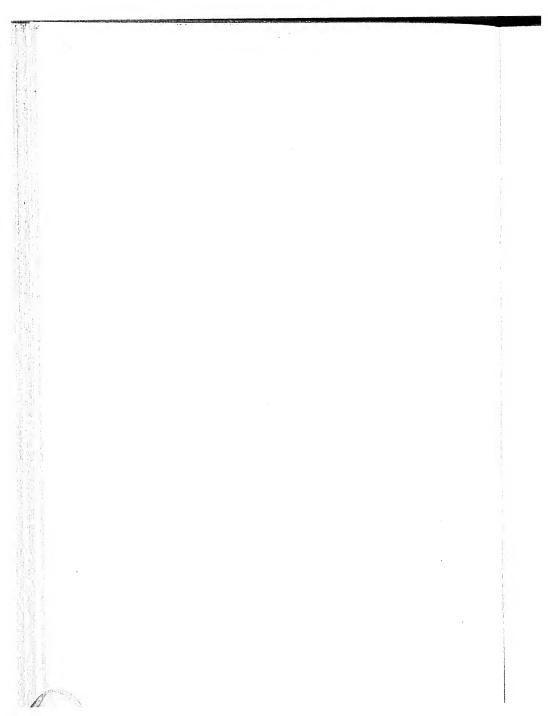
Effect in taxation.

This idea of elasticity of demand has been frequently illustrated by the effect of changes of taxation on different commodities; a big increase of the duty may cause such a fall in consumption as to produce actually less revenue even at the higher rate. This was the case with the high duties on cigars in 1921. In modern times the Chancellor of the Exchequer has found it necessary to maintain a fixed proportion between the duties on tea, coffee, and cocoa, because any relief to one would result in a transference of demand to it from the others.

The total utility of a commodity, as already explained, is the sum total of the diminishing utilities derived from each additional increment to one's stock of a commodity, from the maximum down to the marginal utility. It may seem, however, that this idea is not of much practical use, because no one can measure the total utility of a commodity, nor indeed anything but the marginal utility. It is impossible even to guess how much we would give for one glass of cold water on a hot day in the desert;

Total utility.

its utility would be inestimable. It is equally impossible to estimate exactly the money value of the second glass, and the third, and so on. At the same time, there is one way in which a practical use can be made of the idea of total utility. When goods are bought in the market, the price paid for each commodity is not fixed by the total utility derived from it. One does not pay so much for the first increment, a little less for the next, and so on. The price is the same for every article. Now if, as a matter of fact, men can get for a very small price something for which, if necessary, they would pay a very high price (though they would then buy less of it) it is apparent that it is an advantage to get it at the lower price. This advantage may be indicated by estimating in some way the total utility derived from the actual purchases of the commodity, and comparing this with the price paid for them. There is sometimes a great difference between these two values, and this difference Marshall called consumer's rent or surplus. It is the difference between the consumer's price which one would be willing to pay for a commodity rather rent. than do without it, and the price which one actually requires to pay; that is to say, it is the difference between the total utility and the price, which is fixed by marginal utility. The practical importance of this idea is best seen when comparing prices in different countries, or the general conditions existing in the same country at different historical periods, as, for example, the price of salt in England as compared with the price in India. The War brought this home to people in every country, when the enormous rise of prices and the sheer impossibility of getting what they wanted of everyday necessities, such as sugar and matches, made them realise how well off they were in pre-War days.



CHAPTER XI

THE EQUILIBRIUM OF SUPPLY AND DEMAND

Market price-Short-period price-Normal price-How it is fixed-The mutual margins-Assumptions of the theory-Monopoly price-Rents.

THE preceding chapters have been preparing the ground for How prices the discussion of the problem originally stated in Chapter III., which is the crux of the whole matter, namely, How are prices fixed, by supply or by demand? It was stated there in anticipation that the answer was, by neither alone but by both acting upon each other, and that the comparative influence exerted by one or the other varied greatly in different cases, according to circumstances or the nature of the commodity. is now possible to test and amplify that answer in view of all that has been said with regard to supply and demand separately.

Our examination of supply and the factors of production has shown that there is a law of supply which in effect states that the supply depends on the price; if a sufficient price is offered. the supply will be forthcoming; if the price is too low, the supply will be reduced. On the other hand, the law of demand is that the demand also depends on the price; if the price is high the demand will be small, while a low price will induce a big demand. It is obvious that these two laws are mutually opposed; Opposing supply works one way, and demand the other. How, then, are supply and they brought to balance each other, or how is the point settled at which the two opposing forces will be equal? For market price is the price at which supply and demand are equal; it

must be balanced. must be such that the demand at that price will be just sufficient to take off the supply at that price. In technical terms it is the price which "equates" supply and demand. How is this price arrived at which produces the equilibrium of supply and demand? It is like a man carrying two baskets on opposite ends of a pole slung over his shoulder; the only way to carry them comfortably is to balance them by the principle of leverage. If the weights are unequal he will adjust the difference by resting the pole on his shoulder a little to one side of the centre, nearer the heavier of the baskets. If anything happens to vary the relative weights of the baskets, he will instinctively readjust the equilibrium by moving the pole on his shoulder a little one way or the other. Or to change the illustration: take a child's see-saw swing with a number of children jumping on or off at each end. The boy in the middle will throw his weight one way or the other according as the weight of those at each end varies. He represents the effect of market price on supply and demand; while the boys at each end represent the mutual reaction of supply and demand on market price. If an extra boy jumps on at one end the boy in the middle must throw his weight more to the other end. Thus in the market the effects of price on supply and demand, and of supply and demand on price, are mutual and counteracting. How, then, in actual practice does this system work to maintain the equilibrium?

Haggling of the market.

The answer is apparently simple; market price is arrived at by the haggling of the market which covers a multitude of individual transactions. Every seller tries to get a little more for his goods than he is really prepared to take, but he will even take a loss rather than be left with the goods on his hands. In the same way the buyer tries to get the article for a little less than he is really prepared to pay, but even if the price goes above his idea of what he can afford he may still buy a little rather than do without altogether.

But, as will be seen in the next chapter, there are many different kinds of market. Take first the simplest possible case, that of a market confined to one small district and

A simple

one short period of time, thus ruling out for the present all the considerations of space and time which affect markets in actual practice. Imagine a market for wheat in a small country town in which there is only one dealer, who buys from all the farmers round about, and sells to all the consumers in the town. To simplify the case still further, assume that the merchant buys and sells at the same price, thus leaving the question of his remuneration or profit entirely out of account in the meantime. This dealer knows all his customers; he knows how much each farmer has to sell, and how much each consumer needs to buy; he also knows what price each farmer expects to get and how much each consumer will be willing to give, and what quantities each will be willing to sell or buy, according to the price offered or demanded; that is to say, he knows their supply and demand schedules. Suppose, then, that, having all this information in his mind, he goes into the market on the morning of the weekly market day. He must find out the price which will equate supply and demand, and after looking round the market he estimates that

At 25s. he could sell 1500 quarters of wheat, At 30s. he could sell 1000 At 35s. he could sell 500

while on the other hand he finds that

At 25s. he could buy 800 quarters of wheat. At 30s. he could buy 1000 At 35s. he could buy 1200

Now the dealer's object is to buy just as much as he can sell. How price If he fixes too high a price, he will have more wheat offered to him than he can sell at that price, and will have some left on his hands. On the other hand, if he offers the farmers too little. he will not be able to supply all the consumers who would be willing to buy at that price. The higher his price, the more he will get from the farmers, and the less he will be able to sell. The lower his price, the greater will be the demand, but the less he will be able to get from the farmers. He must then fix his price at 30s, per quarter, because at that figure he will be able to

buy just as much as he can sell. That is the price which equates supply and demand, the market price for the day, and it depends on the relation between the *present* supply and demand in that district. Assuming the conditions of the market to remain the same, and that nothing comes in from outside to disturb it, this market value will remain stable; because, if the dealer raises his price, the effect will be to bring forward an increased supply and cut down the demand, so that he will be left with wheat on his hands; if he lowers the price, the result will be an increased demand which he cannot meet, because the offer is too low to tempt the supply.

Complica

The next step is to bring in the actual conditions which affect market values in real life. For example, it was assumed that the market was confined to the buyers and sellers of one district, and that one dealer had the whole trade of the market in his hand. As a matter of fact, there are always many dealers bidding against each other, and the area of the market is never confined within such small limits. If the price of wheat in one district rose, owing to a short supply, sellers from adjoining markets would come in to get the benefit. Or, if in one country the cost of wheat was excessive, foreign wheat would soon come in, and competition would cut down the price.

The element of time raises still more difficult questions as to

market price. Every market is ruled by considerations not merely of the present supply and demand, but also of future supply and demand. Our dealer, for instance, has to keep in view that, if he does not offer the farmers a good enough price, they will keep their wheat till next week or next month. In large markets, for staple commodities, especially manufactured goods, the considerations of future supply and demand are the main factors in the market. The price depends not only on prospective supplies of the raw material, but also on the probable

Future supplies

effect of all this on market price must be carefully worked out.

The question whether price is fixed by supply, that is by cost of production, or by demand depends mainly on the length of

future cost of manufacturing on a larger or smaller scale. The

time involved in the market. In a short-period market the shortprice depends almost entirely on demand, but long-period or normal price depends mainly on cost of production. Thus-

- (1) Take first the case of an article which is absolutely unique, which cannot be reproduced at all, such as a picture by a famous artist now dead, or the first edition of a book which has become very rare. In this extreme case there is clearly no question of the cost of production; the price will depend solely on demand. Here is only one picture; the price it will fetch depends entirely on how many people want it, and how much they are willing to pay for it.
- (2) Take the case of the local market for some perishable commodity, like the fish market in a small town. The fish are perishable; they must be sold at once. The price will depend on the supply of fish each day, and the number of buyers. If the supply is short, and there is the usual number of customers, the price will run high; but if there is a big supply, or if there are few customers, the price will fall. Clearly, price depends in this case on the temporary relations between supply and demand. that is, on the relation between the present demand and the available supply for the day. This is a short-period market. Notice, however, that even here the general level of prices from day to day must be sufficient on the whole to give the fishers a fair remuneration, their supply price, or they will have to seek other employment.
- (3) Take now an example of a longer market. Suppose a Longer sudden demand arises for some commodity of which the existing means of supply are comparatively limited. Those who are already making that commodity will do their best to increase the supply, but if they know that the demand is not likely to be permanent, they will not run the risk of building new factories or laying down new machinery for the purpose. Before they could do so, the demand would be falling off again, and the money would be lost. They will therefore continue to produce with their existing plant; the supply will not be very great, and while the demand lasts the price will remain high. In this case,

then, price is ruled by the cost of production with the existing factors of production; but if these are not sufficient to meet the demand the price may for a time rise considerably above the cost of production.

Normal price

(4) The last case is where the commodity is one of common use, where the demand is permanent, and manufacturers can safely go in for supply on a large scale. Suppose that it is a new industry altogether. At first, the supply being small, the price will be high, and those who first went in for the trade will make large profits; but, as time goes on, others will come into the trade; new factories will be built, new and improved machinery laid down, and the supply rapidly increased. Every new factory means improved means of production and lower cost; but as long as the total supply of all the factories is insufficient to meet the demand, that will not affect the price, which will depend only on how much the public are willing to pay. High prices, however, will tempt a still further increase of the supply, until at last the supply overtakes the demand, and competition sets in, with cutting of prices. Now is the time when the newest and best fitted factories have their advantage. Their cost of production, owing to their superior methods, is lower than that of any one else, and they can afford to undersell their old-fashioned opponents. As the competition becomes keen and the price falls, those who cannot produce at that price must drop out of the running; they have fallen below the margin. If the supply is still in excess of the demand, the competition goes on steadily, till at last only enough producers are left to meet the demand, and the price is cut down to their actual cost of production.

fixed by marginal cost of production. In such a case clearly the ultimate or normal price is fixed by cost of production; but it is the marginal cost of production. As long as the demand of the market is sufficient to require more than one producer, there are sure to be among the survivors varying grades of efficiency, and therefore differential costs of production. If the demand is such that all of these factories are required to meet it, then even the worst of them, the man whose

cost is highest, must get a sufficient price to cover his cost of production, while the others, whose cost of production is less. will be earning a surplus which may be either a real rent or a quasi-rent, according to the circumstances which gave rise to it. Thus, normal or long-period price is fixed by the marginal cost of production, that is to say, by the cost of production of the marginal producer for the time being, the man who, though not so good as his neighbours, is still needed to make up the total supply required by the market, the man who can just make ends meet.

reached, will compare with the original or short-period price. short-period price. That depends on the nature of the article produced, whether its production involves a large proportion of raw materials, or whether its cost is mainly cost of manufacture. Because, if its cost is mainly the price of raw materials, then the increased supply will mean an increased demand for these raw materials, and that, according to the law of diminishing return (or increasing cost), can only be got at an increased price. If, on the other hand, the cost of the article consists mainly of the expenses of manufacture, then it will be subject to the law of increasing

return (or decreasing cost), and the greater the quantity manufactured, the lower will be the unit-cost of production, owing to the economies of large production. In such a case the normal or ultimate price will actually be lower than the original or

short-period price.

It remains to consider how this normal price, when finally Long- and

The question of how price is fixed, by supply or by demand, is therefore like the question, Which blade of a pair of scissors The pair of does the cutting? The answer is, Neither, but both together: but the share of each depends mainly on the period of time involved in the market for the commodity; in other words, the question is whether time is allowed for reproduction or increased future supply. If the commodity is one of which reproduction is impossible, then the price will depend solely on demand. If, to take the other extreme, the demand for the article is per-

manent and practically unlimited, and the supply is allowed time to adjust itself to the demand; if there is ample time for reproduction, and for rearrangement and readjustment of all the factors of production, then the ultimate price will depend mainly on cost of production. Normal price, therefore, is fixed by cost of production, or, as some prefer to put it, by the cost of reproduction. Whether that cost will rise or fall as the supply of the commodity increases will depend on whether the production of the article is mainly subject to the law of increasing or of decreasing cost.

Mutual margins.

It is necessary, however, in view of subsequent developments of the argument, to emphasise the importance of the qualification, that it is the marginal cost of production that determines normal price. Tust as on the side of demand it is the marginal consumer or the marginal consumption that fixes the price the public as a whole will be prepared to pay, so on the side of supply it is the marginal producer or the marginal cost of production that fixes the price which the public will have to pay. This idea of the mutuality of the margins is to the writer's mind one of the greatest contributions that modern economists have made to the development of economic science. These margins are acting and reacting on each other all the time, and it is that mutual and alternating pressure of the one on the other that swings prices up and down; or, to put it in another way, the two are chasing each other round a circle the whole time. Suppose, for example, that for some reason the demand for a staple commodity increases substantially, the price rises and the result is increased production. At the same time the rise of price, if serious, checks the demand; and the increase of supply produces competition among the sellers in a glutted market, stocks accumulate, and the price falls again. Immediately the demand, which was only checked by the high prices, begins to recover, while the fall of price has discouraged the growers. Now consumption exceeds supply; stocks are drawn upon till they fall to normal again, and prices begin to recover.

An endless circle.

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Here, then, may be seen the constant mutual action of the two margins; the buyers are willing to buy largely if the price is reasonable, but are prepared to postpone demand or to restrict it permanently if prices go beyond their reach. On the other hand, the growers are willing to plant the biggest acreage they Swing of the can possibly handle, if the price is sufficient to cover their pendulum. enhanced cost of production; if not, they will reduce the acreage. And so it goes on, and prices fluctuate from one side to the other, sometimes driven to excess in one direction or the other by the hopes and fears of the crop, or the anticipations of the speculators on either side of the market, but always responding in the long run to the fundamental facts of the situation, that if the price goes up demand will be restricted and the supply will increase; if the price goes down the supply will be reduced and the demand will increase again.

The exchange value of any commodity, therefore, is what it will Price fixed fetch in the market; but under modern conditions the price of most margins. commodities, of which the supply is capable of increase, is fixed by the cost of production of the worst producer whose product is required to meet the total demand. In other words, price is fixed by the marginal consumer and the marginal producer, with a tendency, as long as supplies are unrestricted, for the normal price to settle around the marginal cost of production.

But it is necessary here to state one fundamental condition which writers of a previous generation were inclined to forget owing to the times they lived in. The whole theory was built up on the assumption that the goods concerned were capable of indefinitely increased production, given time; but that involved certain implications which were not fully realised. It implied, for example, a practically unlimited supply of the raw materials, though it provided for a rise of prices if the commodity were subject to the law of diminishing return. It also involved an unlimited supply of capital, and an ample supply of labour. Thus the great assumption of nineteenth-century Economics was that there would always be plenty of supply if the price was high enough; and it took nothing less than the

Assumption of ample supply.

experience of the War to make us realise that this was not an inevitable state of affairs, and that if the opposite state of affairs ruled, the results of a competitive system would be very different. The pre-war theory that competition always tends to bring prices down to the cost of production was entirely one-sided because it implied that the competition was always among the sellers. But during the War, and for a time afterwards, the competition was among the consumers, who knew that the supply was not sufficient to go round, and prices rose to unprecedented levels. Manufacturers were refusing orders because they already had more on their books than they could possibly fill for months ahead and many classes of goods were unobtainable at almost any price. It was a mad world and a very unhappy one for everyone except the profiteers, but it showed that the whole structure of economic theory was based on a state of affairs which had never been fully appreciated, a condition of bounteous plenty where nature gave of her best, and all that men had to do was to supply the labour, the capital, and the intelligence to take advantage of it. It was the final demonstration of the truth that goods cannot be consumed unless they are produced, and that production of goods and services which are destined not for human consumption but for mutual destruction is the negation of well-being. It was only such a madness of destruction which created the abnormal state of affairs above described.

Monopoly price.

So far we have been considering the theory of value under conditions of unrestricted supplies and free competition, but with the modern growth of monopolies and combines it is necessary to consider how prices are fixed under monopoly conditions which are apparently the antithesis of competition. The common opinion is that monopolists always fix their prices very high and make enormous profits at the expense of the consumer, but this is not necessarily the case, for while a monopolist has less need to consider the supply side of the equation of supply and demand, because he has no competition from other pro-

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ducers to fear, he has still to reckon with the forces of demand. Effect of He has to consider the law of demand and the elasticity of demand. demand, and, on the other hand, the question of the economies of large production as applied to his own factory. Thus if he raises the price the demand is bound to fall off to some extent, because, even in the case of those commodities which are essential to life, there is still a certain amount of elasticity of demand. If, on the other hand, he sells at cheap prices, his sales will increase. Even a monopolist, therefore, must consider carefully what price will pay him best. It is possible that by reducing the price to tempt an increased demand and increase his turnover he may actually find that his profits are greater, because the cost of production has fallen even further than the price owing to the saving of oncost. Thus a monopolist is ruled by very much the same principles as an ordinary trader, except that in deciding the price he has only himself to consider; there is no fear of competition to force him always in the direction of lowering his price.

Again, except in the case of the state monopoly which alto-Foreign gether excludes competition, the monopolist in a free trade competition country has to include another important consideration, namely, foreign competition. In such a country this acts as a healthy check on any tendency of the combines to exploit the consumer unduly. In a protected country, however, there is no such check, and the result is that it is in these countries that the evils of monopolies have been greatest, because there the monopolist can adopt a policy which is impossible in a free trade country. Thanks to protection, which keeps foreign goods out of his own country, he can raise his price there up to the limit of the tariff. That will of course reduce his home sales, but he can export the remainder of his product. Thus he can maintain Dumping. his huge turn-over, so as to get the benefit of the reduced cost of production, and still keep his price up at home, while he gets rid of the surplus by sending it abroad. He can afford to do so at a very low price, because he has already made sufficient profit out of the goods sold at home, and can afford to throw away

the rest at, or even under, cost price. This is what is called dumping.

Rents.

There is another great class of apparent divergences between theory and practice which must be dealt with, namely, rents. Here, however, the difference is more apparent than real, for the theory of value provides for rents. The statement is not that price depends upon cost of production, but upon the marginal cost of production. To the man in the street or the careless reader that is only an academic refinement; but it is very far from that. Nevertheless this question of rents requires further examination.

In Chapter V the case of the rent of agricultural land was fully discussed, and it was also stated that there were other kinds of economic surplus which were analogous to the pure case of land rent. The case of scarcity rents was specially mentioned, which is perhaps best seen in the example of the high rents of houses, when there is a housing shortage that cannot be quickly remedied, but it was pointed out that there may be similar scarcity rents in other commodities where analogous conditions exist. Then in dealing with employers' profits it was shown that the pure nett profit of the employer, after allowing for the supply price of business ability and the necessary compensation for risks, was really of the nature of a rent or surplus due to the possession of a superior instrument; that is to say, to differential advantages of one sort or another, or to some lucky hit which enabled one manufacturer for the time being to produce at a lower cost than his rivals. Here too it was seen that the superiority might be very much of the nature of a scarcity rent, due to the fact that for the time being he alone was able to supply the goods, and was unable to meet the demand.

Further cases.

This idea of rent must now be carried still further by analogy. Take the case of the professional man, say a barrister who, owing to some combination of ability with notoriety, has acquired a reputation that brings him more work than he can possibly do, and is compelled to charge very high fees, which indeed are

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thrust upon him. That is just a peculiar case of rent, and it is conceivable that particular individuals in other walks of life. or even a particular class of skilled men, may by some chance combination of circumstances find themselves in a similar position. Think of the position of the skilled engineers during Labour. the War who, in the early days of the munition industry, found themselves sought after by every employer who wanted to get into this suddenly profitable business, and tempted on every hand by offers of higher wages, until the government had to pass Capital. an act forbidding any such man to leave his employment.

Again, is there no rent in the case of capital? When the general rate of interest, as shown by the yield of gilt-edged securities, rises as it did after the War, it may be due, not to any increased value of capital, or of money in the widest sense of the word, but simply to the fact that the demand for capital is increasing faster than the supply can accumulate; in other words, it may be just another case of scarcity rent.

Turning to the other side of the question, it has been shown Negative that in the case of the employer's profits the surplus or true nett profits may not only disappear, but may actually be converted into a deficit, when competition cuts prices to such an extent that he cannot earn his full cost of production, and must suffer a reduction of oncost, which means that he is not earning the normal supply price of his services. Thus quasi-rent becomes a minus quantity. Are there not similar possibilities in other cases? Take, for example, the case of a man who has built houses upon land with a view to letting them, but owing to some change in the character or amenity of the district he finds that it is no longer as fashionable or as popular as it was when he built the houses, with the result that rents fall till they are actually less than the interest on the capital he spent in constructing the houses. What is that but a negative rent, closely analogous to that of the manufacturer who, having sunk his capital in a factory and machinery, finds that he cannot earn enough out of it to pay interest on his capital?

Returning to the illustration of the super-successful barrister,

to emplovers.

not confined there is the opposite case of the briefless barrister who, after spending years of time and much money on his education finds that through lack of connection or opportunity he never makes more than a bare living. Is this not an equally clear case of negative rent? Or taking the illustration of the special class of skilled tradesmen, it would be much easier in normal times to find illustrations of the opposite case, where men who have spent their best years learning and practising their trade. find themselves in adult life suddenly turned adrift through the failure of the industry. Cases could be quoted of whole classes of more or less skilled or professional men who have for years found themselves in the apparently hopeless position which was, for example, the case of the elementary school teachers in this country before the Burnham scale, or of the members of the mercantile marine in the early years of this century. It takes a long time for the over-supply of trained men, which is generally the cause of such a state of affairs, to be drained away by death or old age; and until the readjustment of the balance of supply and demand is attained their case is one of negative rent.

> It seems, therefore, that rent, instead of being peculiar to land, is due to a state of affairs which is likely to arise in any form of production or any class of services. The effect on the theory of the relation between prices and cost of production seems to be that while price does tend to approximate to the marginal cost of production, there will always be in every factor of production cases where the price received is either more or less than the true supply price.

CHAPTER XII

MARKETS

Markets and market price-Meaning of a market-Law of markets-Local v. world-wide markets-Short v. long markets-The Stock and Produce Exchanges-Speculation-Futures and hedging.

REFERENCE has been made in the previous chapter to the Variety of haggling of the market. We must now discuss more fully the ideas underlying the word market, for the market is the arena in which the forces of supply and demand carry on their continual struggle over prices.

The primitive idea of a market is a place where buyers and sellers meet to exchange their commodities. It may be a daily or weekly retail market or a great annual fair, in which many kinds of commodities are sold and the actual goods are displayed on stalls for the inspection of would-be buyers; or it may be a wholesale market dealing in only one commodity, where sales are made on sample or by description, like the Corn Exchange or the Cotton Exchange.

But in speaking of the "market" for, say cotton, the word is used in a much wider sense. The market for a staple commodity means all the producers and consumers of that commodity in the world, which brings out the fact that a market consists not world of commodities but of people who produce or consume that market. commodity. Where the production and consumption are world wide as in the case of cotton, such a market is correctly described as a world market.

One idea, however, underlies all these different kinds of

Uniform price.

Making the price.

market. Allowing for differences of quality, prices tend to be uniform throughout the whole area of the market. One stall-holder in a retail market cannot hope to get a higher price for his goods than all his neighbours; and in a world market like cotton the level of prices cannot for long remain higher in New York than it is in Liverpool, allowing of course for cost of transport. This uniformity of prices is the essential idea of a good market, and it is well brought out by Marshall's definition of a market as "any area in which the buyers and sellers of a commodity are in such free communication that prices tend to equate easily". The same idea was put more briefly by Jevons that "in the same market there cannot be two prices for the same commodity".

The primary object of a market is to "make the price", to ascertain the value, or to find out how much a thing is worth. The value of any commodity depends on two things—what it costs the growers or manufacturers to produce it, and what it is worth to the consumers, but the market price does not always correspond exactly to either, still less to both, of these two notions of value. Sometimes the producers are forced to accept less than the normal cost of production, while at other times they may be fortunate enough to get more. The consumers, on the other hand, are sometimes forced to pay more than they think the thing is worth, while at other times they may be able to buy it for less than they would be prepared to pay if necessary, rather than do without. Which of these conditions will hold at any particular time depends on the relative conditions of supply and demand, whether supplies are ample and demand small, or supplies short and potential demand very large. These conditions again depend on the price, for the quantity that the producers are likely to put on the market depends on the price they have previously been getting, and the demand for most commodities depends on the price asked. The market price then is that which "equates" or balances the opposing forces of supply and demand at any given time, according to the conditions then existing; and it is the first business of the market to strike this balance and find out what the commodity is worth under the changing conditions from day to day. It does this by bringing all the producers and consumers together, either physically or figuratively, so that the opposing forces of supply and demand are allowed to play upon each other in the market; the market price is arrived at as the composite result of an infinite number of separate bargains between individuals. and this price will tend to become uniform throughout the whole market.

It is obvious that, in a market like cotton which covers the world price. whole world, it is not sufficient to fix prices in each separate area. The whole idea of a world market is a world price; that allowing for cost of transport, etc., the price in every section of the market will quickly adjust itself to any change in other sections so that a uniform price is maintained throughout the world. It will be realised that the maintenance of this uniformity of price throughout a world market demands a great deal of organisation, and the meaning of the organisation may be summarised in the Free comphrase "free communication". This means in the first place munication. that all the buyers and sellers throughout the world are kept fully informed of the conditions affecting both the production and consumption throughout the world, so that if one market is temporarily dearer or cheaper than another all the sellers will go to the dearer market and all the buyers to the cheaper market. which will quickly remedy the difference between the two. But this also implies mobility of supply and demand; that the sellers not only know where the dearest market is, but are in a position to transfer their supplies to that market; while in the same way the consumers are free to transfer their purchases to the cheapest market.

But the functions of a world market go further than the maintenance of uniform prices and relative values throughout the whole area of the market at any given time. It is the Price business of the dealers or merchants to consider not only the fuctuations. present conditions of supply and demand but also possible future changes on both sides, and by anticipating these changes

to minimise the fluctuations in world prices for months ahead.

It will be seen that markets differ greatly in two respects which may be described as Space and Time. A market may be small or large, it may be short or long, and the nature of prices in the market will depend largely on these different conditions of the market. It is necessary, therefore, to discuss the considerations which affect the extent of a market in these two senses of space and time.

Extent of a market. (r) Space. A market may be so small as to include only the dwellers in one small village or town, or even in one district of a large town, or it may be so large as to include the whole world, such as the market for cotton goods, which is as nearly world-wide as that of any commodity in the world. The difference depends mainly on the nature of the commodity. To command a wide market a commodity must be (a) an object of universal demand, like wheat or cotton. The market for commodities which are only thought desirable by a comparatively small number of people or by certain races must be confined to the area in which they live.

Cognizability. (b) It must be easily described, sampled, or graded, so that a man proposing to buy a certain lot of the commodity may have it described to him exactly by letter or telegram, or by word of mouth in a way which he can understand readily and without any doubt as to what the seller is offering. This makes it possible to buy and sell without actually seeing the goods in bulk, so that it becomes possible to deal in such goods across half the world by post or cable. Thus wheat can be sold by sample, and cotton is generally sold by description on certain standard bases; but one could hardly buy a horse without actually seeing it.

Portability.

(c) It must be portable; its value must be fairly high in proportion to its bulk or weight, so that the cost of transport is not excessive. Thus wood for building purposes is very expensive in Egypt, yet in the backwoods of New Zealand it costs a great deal of money to destroy good wood so as to clear the land for cultivation. The cost of transport makes it economically impossible to transfer the wood from one part of the world,

where it is worth nothing because there is no "market" for it to another where it would be of value.

- (d) It must be durable, that is to say neither fragile nor Durability. perishable, so that transport over long distances, which involves considerable time, and perhaps rough handling, may be possible. The English meat trade, for example, has been completely revolutionised by the development of cold storage in ships which makes it possible to carry fresh mutton from Australia or beef from the Argentine to England, with the result that the whole world is now almost one market for meat, and the wholesale prices of meat in these distant parts are approximately the same as in London, allowing for the cost of carriage.
- (2) Time. A market may be very short in the sense that Duration of the supply and demand which are taken into account in fixing the price are necessarily only the quantity immediately available for sale or the quantity which can be consumed to-day or it may be very long in the sense that the consumers can either buy to-day or wait till to-morrow, or they can buy enough to-day to satisfy their requirements for the next six months, because the commodity will keep perfectly well. Thus the buyers in a "long-period" market, as Marshall calls it, are not dependent on the immediate supply because they know that further supplies are coming, nor are the sellers forced to sell to-day because again the commodity can be kept for a better market in the future if prices now are not satisfactory. These considerations as to the duration of a market also depend largely upon the nature of the commodity. Thus (a) it depends Nature of upon whether the commodity is perishable or not. In the case commodity, of fresh fish, for example, the seller must obviously take what price he can get to-day because the fish will be bad to-morrow: while on the other hand the housewife cannot purchase any more than her household can consume in a day, no matter how cheap the price at which the fish is offered, because the surplus would not keep beyond to-morrow.

(b) The length of the market depends on the probable of demand, duration of the demand for the commodity. Is it a thing

which is likely to remain in constant demand, like wheat or other food products, or is it something for which the public have merely a temporary need, something which has become the fashion for the time being, or for which they have taken a passing fancy?

and supply.

(c) Is the supply limited to the existing stock, like some unique curiosity or work of art, or the supply of fruit or vegetables available in the market from day to day, or is it a regular crop, capable of being estimated in advance and relied upon as a regular periodic supply (though the exact amount may vary from year to year), like the world's wheat or wool crops; or again, is it a case of manufactured goods of which the supply can be increased to any extent required, like the increased supply of munitions in the world during the War?

World's markets.

These, then, are the conditions which have led to the development of the world's great markets in such commodities as wheat, wool, cotton, iron, steel, copper, oil, and other necessaries of life, the demand for which is practically universal, while their production extends over very large parts of the whole globe. It is necessary next to consider the lines upon which these great markets carry out their world-wide operations, for their methods are all very much alike and are all more or less framed upon one model, that of the most world-wide market of all, the market for money. The methods of trading in the world's great staples, both in actual purchases and sales and in the special branch of trading for future requirements which is called speculation or hedging, have all grown up round the methods of the Stock Exchange, which is the world's market for capital. The primary function of the Stock Exchange is to create a market for capital, to find capital for the formation of new companies, to buy and sell stocks and shares of existing companies, and to float and deal in government loans and stocks.

The Stock Exchange.

> The main fact about the whole of the regulations and methods of the Stock Exchange is that they are all directed to one end, viz. to make it possible to do the largest amount of

business in the shortest time. All kinds of special arrange-volume of ments have been invented or gradually perfected, the primary object of which is to expedite and facilitate business, and as the result of this development of expeditious methods the amount of business which can be put through in a short time is almost inconceivably large. On a busy day in a large stock or produce exchange millions of pounds' worth of shares or goods may change hands in a few minutes. The mainspring of the whole system therefore is the necessity of doing business quickly and at the same time safely; that is to say, without uncertainty as to the business done, which would lead to disputes and litigation.

In the first place, then, it is part of this policy that the The broker's privilege of trading on the Stock Exchange is confined to cer-position. tain members who are carefully chosen because they are believed to be reliable men, and who are required to lodge securities for large sums against the possiblity of their being unable to meet their obligations to their fellow members. For it is the essence of the stockbroker's position that while he is really acting for some one else, by whom he is merely paid a commission, in dealing on the Exchange for his clients he is personally responsible to his fellow brokers for the due fulfilment of the contracts of sale or purchase made by him on behalf of his clients. Under no other system could the business of the Exchange possibly be carried on with the desired speed. It would be impossible to carry on business with the necessary rapidity if on every sale the seller had to be furnished with the buyer's name, and then had to consider whether the proposed purchaser would be good for the price. If the bargain is to be closed immediately by the mere calling out of a price and a wave of the hand as acceptance, the seller must have a guarantee that the purchaser is good, and such a guarantee can only be given by implication by the buying broker. Thus every broker is dealing on the Exchange practically as a Guarantors. principal, and takes upon himself the whole responsibility for all his clients' obligations.

The Settle-

Again, the same necessity for rapid operation and the enormous turnover of the Exchange is partly responsible for the system of periodic settlements. Shares may be changing hands at various prices from hour to hour and from day to day on the Exchange, and it was therefore found necessary, instead of carrying out and settling each transaction separately, executing a formal transfer of the shares and paying over the price, to have one day every fortnight or three weeks upon which all the transactions during the previous period would be settled simultaneously, the shares being transferred direct from the first seller to the last buyer. An elaborate system has grown up on the lines of the Bankers' Clearing House for entering up the credits and debits of each broker and settling the accounts between them at each of these periodical "settlements", as they are called.

Punctual payment on the fixed settlement days is absolutely essential. If a broker does not meet his obligations he is posted as a defaulter. These periodical settlements have therefore the further advantage of keeping the brokers advised (to a certain extent) of the position of their fellows with whom they are dealing. If there is anything wrong with the broker's financial position, it should be at once revealed by his failure to meet his contracts at the next settlement.

Borrowing on securities. But it is not always possible for brokers or their clients to take up their purchases promptly on the settlement day. A system has therefore been developed under which those who require to borrow money in order to pay for their purchases can do so. Thus banks grant loans to their own clients, whether brokers or private persons, on the security of shares deposited with the bank. The customer must find a certain amount of cover, that is to say, he must pay part of the price of the shares himself, borrowing only part from the bank, so that the value of the shares lodged as security exceeds the amount of the loan. If the shares fall in the market, the bank will call on the borrower to provide more cover, in other words, to pay in a sum to reduce the loan, or lodge further

securities, thus preserving the margin between the value of the shares and the amount of the loan. But as the banks can Contango only do a limited amount of this business, a special class of brokers has grown up on purpose to do it. They are called contango brokers, and are practically pawnbrokers of shares. If a stockbroker cannot pay for his shares, he borrows money from a contango broker, who takes up the shares, or carries them over, as it is called, for the actual purchaser till next settlement. The charge made for doing so is really interest on a loan, but it is called the contango rate, or carry-over rate.

Unfortunately, the facilities thus provided for genuine in-Speculating vestment business have led to the development of an entirely ences. different class of business which is less desirable. This is speculation, buying and selling shares, not with the intention of holding them as an investment, but simply in hope of turning them over again at a profit. The contango system has enabled people to enter into this kind of business on a large scale, because, as they can borrow the greater part of the price, they are tempted to buy a larger number of shares than they could possibly pay for. This has given rise to the system known as speculating on differences, which means buying shares which one does not want to hold, and cannot possibly pay for, in the hope of being able to re-sell them soon at a profit, or selling shares which one does not possess in the hope of being able to buy in again later on at a lower price. The former is what is called a "bull" transaction, the object "Bull" and being to force up the price of shares, the latter a "bear", which has the reverse object. Were this process confined to one settlement it would not do very much harm, but when, owing to the carry-over system, brokers are enabled to carry on open speculative accounts from month to month, it leads to considerable mischief and artificial movements in the prices of shares which are due to manipulation by interested speculators. Many of the brokers themselves make a business of speculating in this way on their own account, as well as for clients, and it

position.

is in this kind of business that fortunes are made—and lost— Its economic on the Stock Exchange. It is difficult to see any real economic advantage to the community in this kind of transaction, but. unfortunately, it is hardly possible to restrict or prevent it without interfering too much with the necessary liberty of genuine investment business.

Produce Exchanges.

The principles upon which the business of a highly developed produce exchange is conducted are similar to those of the Stock Exchange. The Liverpool Cotton Exchange may be taken as an example The first essential to the efficient functioning of a world market is the existence of a complete network of communications between all the markets, so that information as to the prices of any kind or quality of the commodity in any market in the world is instantly available throughout all the other markets; every change in prices in each market is immediately cabled to the others and has its effect on quotations there, which are again reported back to every other market.

But a system of cabling quotations presupposes the existence of the quotations themselves, and that in itself is the first step Quotations. towards the creation of an organised market. A quotation, especially a cabled quotation, requires that both buyer and seller must know exactly what is meant by the quotation, i.e. what grade or quality of the commodity is being offered, and cotton is not a simple commodity of one kind and one quality. There are many different varieties of cotton, all of different qualities and values, and in each variety, e.g. American, Indian, or Egyptian, there are many degrees of quality depending on the different factors of value, the most important of which are the length of the staple and the condition of the sample as regards colour and the presence of foreign matter. Thus the very idea of a quotation implies the existence of a system of grades or standards by which the exact kind and quality of any individual lot of cotton can be described.

Spot and fûtures.

Next it is necessary to explain the difference between the spot and futures markets which is not, as the names would indicate, merely the difference of time. In the spot market

actual cotton of all kinds, grades, and qualities is sold in individual lots to spinners who want a particular cotton to suit the requirements of the yarns they are producing, but the spot market is not confined to sales for immediate delivery. On the contrary, deliveries of actual cotton sold in the spot market may be spread over a period of months ahead. The essential thing which differentiates a spot contract from a futures contract is not the date of delivery, but the fact that a spot contract is for actual cotton, specifically described and identified at the time of the contract. On the other hand, futures contracts are, as the name implies, for future delivery, but the period involved might conceivably be as short as a week or as long as two years ahead, and the element of time is not the fundamental thing. The real difference between a spot contract and a futures contract is that the latter does not specify exactly the particular lot of cotton sold. It is merely a contract to sell 100 bales of (say) American cotton deliverable during a certain month, and on the basis of a price fixed. But the exact quality of the cotton Basis to be delivered is not fixed. It must be cotton within a certain range of quality above or below the basis grade known as "Middling". The seller has the option of tendering any grade within the specified range, and the value of what he tenders will be fixed on the basis of the price for middling quoted in the contract. Thus the futures contract would be better described as a basis contract, because it does not specify the exact cotton to be delivered, but merely provides a basis price according to which the value of the actual cotton tendered will be decided.

Under no other method would it be possible to carry on the Cabling system of constant cabling of quotations, which is the foundation of the world market and the essential condition of maintaining uniform prices. It would obviously be impossible to cable the whole list of spot quotations, even for American cotton, every few minutes, but the basis price "Middling" for delivery at various periods ahead can be cabled constantly, and if this is kept uniform in all the world's markets, the

actual prices of different grades in each market can be kept adjusted to the cabled fluctuations of the basis price. Thus, through the constant cabling of futures quotations, the basis prices of all kinds of cotton throughout the world are kept uniform and in relation to the price of American cotton. primary function of the futures markets, therefore, is to act as the link between the various spot markets and thus to maintain the uniformity of prices throughout the whole world at any given time. Again, it is in the futures market that the whole mass of information or opinion about the probable prospective changes in the conditions of supply and demand is brought to bear on present prices. A report, for example, of an anticipated failure of the American crop, though it will not come to market for some months, has an immediate effect on the futures quotations for these distant months, and the raising of the quotations on the futures board for them will immediately have more or less effect on the quotations for nearer months, which again affect the spot prices of actual cotton in every market.

Future prospects.

is fixed entirely by the futures market. On the contrary, the conditions of actual supply and demand for different kinds, grades, and qualities of cotton, as these show themselves in the various spot markets throughout the world, are reflected in the futures market because every sale of actual cotton in the spot market results in a purchase of a futures contract through the system known as "hedging". Thus the spot and futures markets act and react on each other, and the result, especially in a market like Liverpool which is both a spot and futures market, is to focus the combined forces of supply and demand in such a way as to produce a price level which represents the whole world's view of the balance of the forces of supply and demand, both present and future, and that price is maintained at a uniform level throughout all the markets of the world.

But it must not be imagined that the actual price of cotton

Spot and futures prices.

Hedging.

It remains to describe the system of hedging which is one of the most important uses of the futures market. A hedge is a collateral contract which protects the party to an existing

contract against the risk of changes in the price of the commodity. If, for example, a merchant in Liverpool has bought a thousand bales of actual cotton he sells a hedge of a thousand An bales in the futures market; then if the market price falls he loses on the price of the actual cotton but gains on his futures contract on which he will receive the difference. This use of the futures contract as an insurance against price changes in the period during which the merchant must hold the cotton was first invented by Liverpool merchants buying cotton in America, but was gradually extended to many other uses. A spinner offered a contract for varn for future delivery for which he had not yet bought the raw material could buy futures instead to cover the risk of a major change in the price. In the same way cotton growers whose crop was not yet ready for picking could sell futures against it and thus secure the benefit of a satisfactory price and cover themselves against the risk of the price falling before their crop was ready. Finally, with the growth of the system under which banks financed the holders of actual cotton by lending them money on its security, the banks developed the habit of insisting on the cotton being hedged to cover the risk of a fall in its value during the period of the loan. Thus in effect nowadays practically every interest in cotton is hedged or insured against changes in its market value. The economic position of futures dealing in actual Function commodities, especially in the form of hedges, is thus more defensible than speculative transactions in stocks and shares, but, unfortunately, the theoretical advantages of the futures system are considerably diminished by the entrance into the market at times of outsiders who having no expert knowledge of the real conditions or prospects of supply and demand merely gamble in futures on the chance of making a profit out of the differences. This outside speculation frequently tends to drive Outside the movement of prices too far either one way or the other, but speculation. it has not been found possible to devise any method which would eliminate such outside speculation without interfering with the legitimate use of the futures market for its proper purposes.

CHAPTER XIII

DISTRIBUTION, OR THE VALUES OF THE FACTORS OF PRODUCTION

The meaning of distribution—The law of substitution works on and through the employer-The national dividend theory-How competitive distribution really works—The assumptions of a perfect distribution.

So far the theory of value has been discussed in the form of the question, How are prices fixed? We have seen how the market price of any commodity is fixed as between buyer and seller, but there is another side to this question which must also be considered. The inquiry cannot be confined to the fixing of the price of finished commodities; it must also explain how the prices are fixed of the factors of production themselves, which go to produce every commodity, or how the price of the finished commodity is divided or distributed among the factors of Prices of the production—land, labour, capital, and organisation. Each of these must receive payment out of the price of the product for its share in the joint production. How is the share of each determined? This is the problem of distribution, which every

factors of production.

Distribution misunderstood.

method of treatment. In the first place, the name itself is misleading. To the ordinary man in the street distribution means the process of distributing the finished goods among the consumers, which is entirely different from the sense in which the economist uses the words. Such an opposition between the

economist from the time of Mill has treated as a separate branch of the subject. There are two objections, however, to this technical meaning of a word in Economics and its everyday meaning is to be avoided.

In the second place, distribution in the economic sense is not Competition, really a different branch of the subject at all: it is only another application of the ordinary theory of value. The problem of distribution is simply to determine the values of the factors of production. Take, for example, a pair of boots made in a modern factory. If its sale price is, say, 25s., how much of this goes for raw materials, how much to the employer or owner of the factory for the use of his buildings and machinery and for his own peculiar services, and how much to labour?

The solution of this problem lies in the same great principle or the as that which rules the fixing of the price of the finished com- Substitution. modity as between the producer and the consumer, namely, the principle that men always try to buy in the cheapest market, which is the foundation of competition, or, as Marshall called it, the law of substitution. It has been shown that in the fixing of the price of the commodity it is the force of competition that keeps market price always swinging round about the equilibrium price, which balances supply and demand. It is competition that cuts normal price down to the cost of production of the marginal producer. The centre or pivot of this great system of competition is the employer or entrepreneur, who organises the whole system of production. Competition among all the different employers or manufacturers enables the consumers to obtain the goods they require at the lowest possible prices. Thus, competition works on the employers, compelling each of Its effect them to sell his commodity at the lowest attainable price in order employer to tempt customers to buy as much as possible, and to buy it from him.

The manufacturer of textiles, for example, is always on the outlook for new styles or patterns of cloth, which are first brought out in expensive materials for the dearest markets. These he copies in cheaper materials, bringing the price of the fabric within the reach of a middle class, and therefore a much larger market. Thus the beautiful fabrics first made in expensive

materials by hand-loom weavers or the luxury trades, such as silk or the fine woollen industry, are imitated by the Lancashire factories, which turn out for one-third of the price an article which serves almost the same purpose, thus bringing the goods within the reach of a class to whom at the former high price they were quite inaccessible. The actual process of comparison and selection may be more clearly seen in the case of competitive offers on specification for a public contract, such as the erection of a large building or the construction of a new battleship; but the competition of the shop window, or, behind the scenes, of the traveller with his sample case calling on the buyer of a big whole-sale drapery house, or again on the floor of the Exchange, is exactly the same thing; it is the desire of the sellers to tempt buyers, and the inducement is a low price.

He passes it on

The principle of competition also works through the employer on every factor of production which he employs. Tust as every employer has to meet the competition of all his fellow-producers in order to get a market for his goods, so he finds it necessary to apply the same process of comparison and selection to every link in his own chain of production. His object is to sell his goods as cheaply as possible. He must, therefore, do everything possible to reduce their cost by cutting down, if possible, the expenditure on every item in his factors of production. From this point of view he is the consumer, and the factors of production are producers who wish to sell their product to him. He must apply the same treatment to them as his consumers do to him. If they find that they can buy the same goods cheaper from another manufacturer they will do so; if they can get something cheaper to supply their wants as well, they will take it. In the same way, if the employer finds that he can get the product of any one of his factors of production cheaper elsewhere, he will do so. He applies this process not only to every factor of production as compared with others, but also to every item in each factor of production. If he finds that he can get his raw materials cheaper somewhere else, he will stop the present supply, or if he can substitute some other and cheaper materials with

to every factor of production, equally good results he will do so. If some other kind of labour can be had cheaper than what he is at present employing, such as women in place of men, he will have to adopt it. If machinery will do his work more cheaply than hand labour, he will introduce the machine and dispense with the labour, thus substituting capital for labour. If he finds that a new machine will do the work better than another, or give more product for the same cost, he will substitute the new machine and throw out the old. If by bringing in more foremen or managers of a superior class he can get better results out of his factory, he will do so. If by reorganising his business in a more efficient way, or extending it on a larger scale, he can reduce his oncost or increase his turn-over. it will pay him to do so; and competition compels him to do it.

Thus, competition works through the employer on every The effect, factor of production, involving the constant comparison of each factor of production with every other, and of each man or unit in every factor of production with others, and the selection or substitution of that which is cheapest and best. The result is (r) that the total cost of production is reduced to the lowest possible figure, and (2) that each factor of production, and every separate unit of each factor of production, receives its proper share of the product. Every man earns just about what he is worth; and that is decided by comparing him with every other factor of the same kind, and selecting the cheapest, that is to say, the one which gives the best value for the money. Thus perfect competition, by ensuring that no man gets more than he is worth, would necessarily secure that every man gets all that he is worth. The ideal of a just system of distribution is that every factor of production should receive its fair normal supply price.

From this point of view we see the whole mass of producers The struggle in eager competition with each other for the opportunity of production. It is a universal struggle for existence, and the result is the survival of the fittest. But there is another side to the question. The object of all this struggle is to cut down the cost of production and to supply commodities at the lowest

possible price. But who benefits most by this struggle? Obviously it is the consumers, who get their wants satisfied at the lowest possible price. Thus the great competitive system of production is really, from this point of view, a system of cooperation to supply the consumers with the commodities which they require at the lowest possible price.

National dividend theory. Marshall brought out this idea very clearly in what he called the national dividend theory. Imagine all the producers in the world sitting in a huge circle, each working at his own trade and throwing his product into a great heap or pool in the centre. The accumulating heap of goods and services of every description is the national dividend, the sum total of every kind of wealth, available for distribution among the consumers. But the consumers are all the world, and that means simply the producers themselves, who have already made these goods. Thus the producers have worked for the benefit of the consumers, hardly realising that they themselves are the consumers, and that it was for themselves they were producing.

Its division.

How, then, is the national dividend to be divided, and on what principle is each man's share to be allotted? Clearly, the most reasonable rule, and apparently the simplest, is that every man should receive the equivalent of what he has produced, that each man should be entitled to consume exactly in proportion to the amount he has contributed. This brings out in a striking way the double relationship between the producer and consumer. The producers labour in order that others may consume; but their labour for others entitles them to receive in turn the product of the labour of others. Their production for the consumption of others entitles them to consume the products of others. The sole object of production is consumption, while production is the sole right to consume. Every man's product is his title to consume; and its amount is the measure of his right to consume.

To quote from Marshall: "The nett aggregate of all the commodities produced is itself the true source from which flow the demand prices for all these commodities, and therefore for

the agents of production used in making them. Or, to put the same thing in another way, this national dividend is at once the aggregate nett product of, and the sole source of payment for, all the agents of production within the country. It is divided up into earnings of labour, interest of capital, and lastly, the producer's surplus or rent of land. It constitutes the whole of them, and the whole of it is distributed among them, and the larger it is, the larger, other things being equal, will be the share of each of them."

This theory of the national dividend is of great value in Some dealing with many economic problems; its application at once exposes many popular fallacies. Take, for example, the common belief that industrial crises are due to over-production. The national dividend theory gives a ready answer on this point. General over-production, that is to say, excessive production by every one, is impossible, because if all the producers in the world were simultaneously to increase their production, say, by onehalf, the result would be that every consumer would now be entitled to consume half as much more as formerly, and the goods would be there for him to consume. When it is recalled that production means things to consume and the right to consume them, it is clear that an all-round proportionate increase of production cannot result in over-production. The trouble is, however, that increased production never is thus equally proportioned; one trade may be increasing its output while others remain as before, and the result is unfortunate for the active Overtrades, because they are dependent for their demand on the production of other trades. If that has not increased in proportion to their own increased production, they will not be able to find purchasers for their extra product. The so-called general over-production is only over-production by certain trades, resulting in disproportionate production and dislocation of industry. The remedy is not to be found in stopping the extra production in one trade and throwing a number of their producers idle. The fault is want of proportion between the

Some applications

Overproduction, different trades. The cure, therefore, is to transfer some of the extra producers to another trade; in other words, to encourage the mobility of labour and capital from one trade to another, so that the supply may always adjust itself to the demand as readily as possible.

Making money circulate.

Again, there is what has been called the fallacy of the broken window: the old idea that spending money, no matter how or on what, was a good thing, because it made the money go round. Thus foolish expenditure on luxuries, or even the absolutely unproductive expenditure on unnecessary wars, was said to be good for trade. Nothing shows the fallacy of this so quickly as the national dividend theory. Production is the sole title to consumption. Nothing can be good for trade which only leads to the destruction of goods, nor can the position of any one be improved by lessening the national dividend, which is the sole source of payment for all the producers. If men spend their time making boots, the boots are there as an addition to the heap of wealth to be divided among them all; but if their labour is diverted to making warships, guns, and gunpowder, and these ships are sent out to blow each other into pieces, where is the gain to any one? The price of these ships must come out of some one's pocket; the value of them came out of the national dividend just as effectually as if part of the national heap of goods had been directly destroyed by fire.

The theory

Such is the theory of Competitive Distribution, but in these days when economic theory is attacked on every hand, and especially when the whole system of competition is on its defence, we cannot be content with the mere statement of a theory, however perfect it may appear to be; we must consider how it really works out in practice, and whether the actual results are such as we can face with a clear conscience. The complacency of the Victorian economists, of whom Mill may be taken as the outstanding example, received a rude shock when men like Carlyle pointed out the terrible social evils which accompanied the early development of the factory system, and

demanded to know whether this was the result of the much- Is the result lauded system of economic freedom. In the face of such conditions, which still exist, though fortunately not to such a terrible degree or extent, we cannot say that all is for the best in this best of all possible worlds. Can we even say that the system is working out for the greatest good of the greatest number, and salve our consciences with the assurance that "rough justice" is being done on the whole? Or can we go further and say that these social evils are not really inherent in the system, that as men come to understand it better these things will gradually disappear?

Perhaps the best form in which to take the problem is the Fair wages. question of wages. How are wages fixed? Does every man earn just about what he is worth? That question at once raises the fundamental difficulty of the whole business. How do we know what any man is worth? The theory of competitive distribution is that every man should be paid according to his product; but it is impossible to apply that test under modern conditions, when no man produces anything. For under the factory system it is literally true that no man makes even the smallest article complete, and all by himself. In the first place, it is machinery that produces almost everything, and the man's share in most cases is merely to watch and feed the machine. Even the factory itself does not really produce anything, because Divorce production means the creation of utility, and the article made product. in the factory has not really achieved utility until some one is found who can use it, and that involves the assistance of others outside of the factory. In all this huge system of production, how is any one man to identify his particular share in the finished article as sold to the actual consumer? It is impossible for any man to say—as in the case of the pair of boots above quoted—out of the price of 25s. my share is one-fiftieth, or onehundredth, or any particular fraction. Even the employer himself could not answer that question. All he can say, even if his costing system is perfect, is how much he paid to each individual unit of every factor of production, and that is not



the same thing at all. The fundamental difficulty of the whole question is the impossibility of identifying any man's product so that its value may be estimated and his due reward fixed.

The problem

How does the theory of competitive distribution profess to meet this difficulty? It is a problem of the relative value of two things which cannot be compared with each other. On the one side is a piece of work; on the other a sum of money: but the produce of the labour is not saleable in the form in which it leaves the workman's hands, and it is therefore impossible to find out how much money it is worth. The fact is that it is impossible to prove in this way what any man is worth. All that can be said is that there are certain rough lines of division which are recognised by custom, that the wages of skilled artisans are higher than those of unskilled labourers, the salaries of professional men still higher, and the earnings of successful business men highest of all. The problem, therefore, is to prove that a whole series of different rates of wages is economically justified, in spite of the fact that there is no means of testing any single one of them by the direct method of putting its product on the market and finding out the value of that particular piece of labour. Here are two lines which cannot be made to meet: on the one side a series of different grades and classes of labour, on the other a scale of wages, salaries and earnings of all sorts, each belonging to one kind of work in the opposite row; and it is impossible to test any of these wage-relations by the direct method. What other method, then, is available? How does competition really work in fixing wages in general, or the wages of any particular class or group of workers, or of any individual in such a group?

and the answer.

Perhaps the answer will be found through an illustration. Imagine a large squad of recruits to be fitted with their new uniforms. There is a uniform there for every man, but the men vary in size and so do the uniforms, and the sergeant does not know the sizes of the men nor of the uniforms, and he does not possess an inch-tape or a yard-stick even if there was time to use them. The apparently simple method of letting each man

hunt among the uniforms till he finds one that fits him is really not simple at all; it would only result in wild confusion and the most incongruous results, besides wasting time. There is another method, however. Size all the recruits in a line, tallest on the right, shortest on the left. Arrange the uniforms also in order of size by measuring them against each other, and lay them in a row accordingly opposite the line of recruits. Then let every man take the uniform that happens to be lying opposite him in the row, and the result will be the nearest approximation possible to a good fit all round. Yet not a single man has tried on a uniform, nor has a man nor a uniform been measured.

Behind this illustration lies the truth of the matter. It is comparison impossible to compare the two parallel lines of men and wages crosswise, but it is comparatively easy to compare each line sideways. Every man in each class of labour can be compared with his neighbours, and each class of labour with every other class above and below it, and by so doing one can determine the relative value of each man compared with his neighbours. No one can say what any man in the whole row is worth, but one can say whether the man below him is worth as much or less, and whether the man above him is worth more or not, and therein lies the secret of the method. Competition works up and down the ranks, and secures the nearest approach to correct sizing that is possible; and if the sizing in each line is correct, that is to say, if the grading of labour is according to some proper standard, then the apportionment of wages to worth will not be far out. It should work out in this way. If every man is at least as well worth his pay as the man below him, that is to say, if you cannot get another man to do the job for less money, then it is pretty certain that he is not being paid too much. Now, if no one is being paid too much, and if the Wages and whole national dividend is being divided on that principle, so that the employers themselves and every grade and class of workers are subject to this ruthless comparison, so that no one is getting more than he is worth, then the result must be

that no one is being paid less than he is worth. That is simple

and obvious logic. If the whole amount earned by everybody is divided out in such a way that no one gets more than his share, then it is absolutely impossible that any one should get less than his share.

Economic friction.

Such, then, is the ideal of competitive distribution, but does it work out in practice with anything like accuracy? The next step, therefore, is to consider the assumptions of a perfect distribution, or the conditions required for the perfect working of such a system.

Perhaps it may help to clear our ideas with regard to the nature of these assumptions if we take up again the illustration of the uniforms. It is obvious that the proper solution of that problem assumes two conditions: (r) that there are enough uniforms to go round, and that they are of the right sizes; (2) that the sizing, both of the uniforms and of the men, is accurate.

Is the dividend sufficient These imaginary conditions can be translated with quite good parallelism into similar conditions affecting the problem of distribution. The main assumptions there can also be divided under two main heads, viz.: (1) Is the national dividend big enough to go round and give every individual a sufficient share? and (2) is the process of grading the ranks of labour of all kinds done on any sound principle; is it fairly and accurately done, and is there any means of checking it and enabling errors to be corrected?

The answer to the first question is a fairly confident affirmative. Whatever may be said against the factory system no one can deny its enormous productivity. The world is producing to-day, or could easily be made to produce, an ample supply of every human requirement to provide sufficient for every one of its workers. It is not so certain that the world as at present controlled is producing just the things that are most desirable, and in the right proportions. Many things are being produced which could well be done without, while the right proportions of different classes of product are very difficult to maintain, because these proportions depend to a very large extent on the

individual tastes or idiosyncrasies of the world's population. which are very difficult to gauge in advance (and that is how the whole system is carried on), and which vary greatly from time to time.

The second question, whether the sizing is fairly and accu- and the rately done, really turns on the point already discussed of the mobility not only of labour but of every other factor of production, and on their capacity and opportunity to place themselves in their proper order in the grading of the producers. That question is perhaps the most difficult of all to answer, because it involves so much. For the sake of clearness it may be dealt with under three heads as follows:--

- (a) The ideal working of competitive distribution implies, first, perfect knowledge on the part of every factor of production of its true value, and of the best market for its product.
- (b) It also implies complete mobility of every factor of pro-Assump duction so that each may be able to command its true supply price. If a man knows that he is not receiving in his present place a wage really commensurate with his work, if he feels that he could do better work, or ought to be paid more for the work he is doing, is he able to go after a better job?

(c) It implies equal bargaining power on the part of every Equal individual unit in the whole scheme of production.

Finally, all that has been said so far would only carry the argument to the point of proving that every man is earning what he is worth, but there is a further question behind that: How do some men come to be worth so little, or so much? If a man is only an unskilled labourer, it may be because he is physically or mentally fit for nothing else now; but was he always like that, or would things have turned out differently if he had had a better chance? If it is lack of education or of the training of a skilled artisan that is the cause of the difficulty, how did he come to miss that education or training? The question of equal opportunities, therefore, goes to the root of the matter. Until every child has at least a possible chance of getting the best education that his brains are fit to assimilate, there can be no certainty

Equality of of equal opportunity in the entrance to the higher ranks of industry or the professions. Education takes time, which costs money for the boy's maintenance, even if the actual schooling were free up to the highest grade of university education. As long, therefore, as the inequality of wealth forms a barrier to the opportunities of the best education, no one can say that what a man has become is the best that he might have been. On all these points the actual conditions of to-day are very

Inequality of property.

far from justifying the assumptions which have been indicated. It cannot, therefore, be said that our competitive system works perfectly, and this leads up to a new set of problems which lie behind the problem of distribution. In the first place there is the one thing which underlies the question of equal opportunity, namely, the existence of a system of private property in land and other things, which enables the owners of such property to draw therefrom a revenue sufficient to maintain them without actually rendering any direct or personal service in production. This system must be examined and its implications made clear, so that its justification or otherwise from the economic point of view may be established. Next it is necessary to consider a whole series of movements which have been the outstanding feature of the past century, all inspired by the same motive, namely, the desire to secure better conditions for those who in the past have been the losers in the economic struggle for survival. These movements have been along two main lines: (1) Legislative action to render impossible the worst evils of the factory and industrial system, and to remove the worst hardships from the life of the poor, as by health and unemployment insurance and old age pensions; and communal action to secure to them in some measure the possibility of certain amenities of life, such as free education, public libraries, museums, picturegalleries, parks, baths, etc.1; and (2) Combination among the members of various grades or classes (not all on the side of labour and not even all producers) to secure for themselves by

Legislation

Combina-

¹ See section on "Social Reform by Legislation" in Appendix: An Outline of History.

joint action better terms or better conditions of work or life than they could individually enforce working as separate units. Such movements are Trade Unions, Employers' Organisations, Co-operation, and Monopolies, which are dealt with in the next chapter.

Finally, it is necessary to consider the possible alternatives socialism of those who, condemning the whole system of competition and free enterprise as inherently wrong and hopelessly unsatisfactory in its results, have set up in its place as their ideal the various forms of socialism, which is its complete antithesis.



CHAPTER XIV

PRIVATE PROPERTY

Private property, its meaning, historical development, arguments for and against-Land nationalisation-Taxation of land values-State and municipal industries, their advantages and difficulties.

In dealing with distribution so far, only the actual state of affairs under modern conditions in industrial countries has been considered. An attempt has been made to explain how, as a matter of fact, the various shares of the product are allotted to land. labour, capital, and organisation by competition. But we have not stopped to consider how the persons who receive these shares have come to be entitled to the product of the various factors of production, of which they are called the owners. It has been $_{\text{The}}$ shown, for example, that land earns a share of the product, which $_{\text{question}}^{\text{underlying}}$ is called rent, and how the amount of that share is fixed. In the same way it has been shown that capital earns its share. which is called interest; but we have not considered the economic effects of the system under which the persons whom we call the landlord and the capitalist are legally entitled to receive the shares of the national dividend admittedly due to these essential factors of production, land and capital. In short, only incidental reference has been made to one thing which underlies the whole question of distribution, namely, the meaning and nature of the legal right of ownership, in other words, private property.

Note in passing that every one takes for granted the right of the labourer to "own" his labour, the right to work or not as

Ownership of labour. he pleases, which includes the "right to strike" and to work where or for whom he chooses; but these rights are not a matter of course. In the old days slavery was the complete negation of all of them; and even in comparatively modern times there were in this country restrictions on the free movement of labour, such as the law of settlement and the prohibition of the emigration of artisans. The War reminded us painfully that the dominant right of the Crown over all kinds of property extended even to labour in the form of military conscription, and many people think now (being wise after the event) that we ought to have had civil conscription too.

John Stuart Mill maintained 1 that the law of private property rests on an entirely different principle from that which rules the laws of production. These laws, he pointed out, are natural laws; they are fixed principles of nature, which are beyond the power of man to control, and which he must simply obey. The law of supply and demand is a law not made by man, and which man cannot alter; but it is not so with the law of private property. It is not a natural law that one man should own a certain piece of land to the exclusion of all his fellow-men, and should demand from them for the use of that piece of land a share of the product to which it contributes. The laws of property, in other words, are made by man, and may be altered by man. The present question is therefore on a different plane from those formerly discussed. Why should one man be called owner of this piece of land, and is it for the good of the community that he should continue to be so regarded? The question must be considered from the purely economic point of view, that is to say, we must find out the economic basis of the institution of private property.

Private property in land not "natural"

and comparatively modern. It is necessary first to emphasise the fact that the institution of private property in the full sense is not of very ancient date. Men are so accustomed nowadays to the idea of ownership of land, houses, capital, etc., that this is apt to be forgotten. This question may be considered from three points of view: (1) the

1 Principles, II. i. 1.

development of the right of property in different things; (2) the development of the meaning of private property, that is to say, the growth of the various rights or privileges implied in the right of ownership and the extent to which these rights are still restricted; and (3) the economic arguments in defence or justification of the right of property.

(1) It is to be remarked that those things which were probably Its the first to be owned are no longer regarded as fit subjects for ownership at all, namely, slaves, and women and children. These and certain tools, implements, and objects of personal adornment were probably the only forms of wealth in savage communities. There was no question of the ownership of land, for the simple reason that no one wanted to own land. The only use the primitive savage could make of land was to hunt the wild beasts that roamed over it, and any one could do that at will without requiring to exclude his neighbours from the privilege. Even the early shepherd tribes required only a very limited and temporary right of exclusion. The ownership of land is a later development, due to the commencement of tillage, which made all the difference. If one man is to spend his labour tilling and preparing the soil and sowing his seed in it, obviously he must be granted the exclusive privilege of reaping the crop. In the same way, as his home became a thing produced by labour, a built hut, instead of merely a natural hole in the ground, the right of exclusive possession became a necessary corollary of the labour of production.

Exclusive possession, however, took an intermediate form Common before reaching the modern stage of private individual owner- property in land. ship, namely, common property. Under this system the land was the property of the family, the tribe, or the clan. Only in comparatively recent times has the idea developed that the land of the country belongs to the nation, as represented by the king or head of the state, and that under him it should belong to private individuals. That was essentially the idea of the feudal system and was its own peculiar mark.

Note that this idea of the dominant ownership of land by the

sovereignty. Crown implies an important restriction of the rights of the private owner. The Crown may at any time resume the ownership of any land required for public purposes, and may by Act of Parliament delegate this right, as for example, to a railway company in the power of compulsory purchase of the land required for its undertaking. The right of sovereignty of course extends to other forms of property, as the War very unpleasantly reminded us. It is also the basis of the right of the state to impose taxation.

Subjects of property.

Many things have been the principal subject of private property in different ages and among different peoples. In the old days, among pastoral peoples, cattle were the principal form of wealth; later, under the feudal system in England, for example, land was the form of property that mattered most; while nowadays one might say that the ownership of mines and raw materials is the best form of wealth, though land has never in England lost the peculiar importance which attached to it. Nowadays the idea of ownership has been extended to ideas, in the form of patents, trade-marks, copyrights, etc., and to intangible rights in the form of shares, stocks, etc. These would seem to be the extreme forms of development of the idea of property in the meantime; but it is impossible to forecast what changes may take place as the result of future developments in aviation. Already this has resulted in a tacit restriction of the full rights of ownership, which were formerly supposed to be coelo ad centrum. This theoretically excluded the right of any one to pass over private ground at any height, or even to stretch a wire over it. An interesting question was raised in England during the War as to the rights of the surface owner in regard to oil found under his property, because if one proprietor sinks a well it may draw off the oil from adjoining areas.

Rights implied.

(2) The right of property implies two main characteristics— (a) perpetuity, and (b) free disposal. Of the former, land is the best illustration. Perpetual ownership means not only the complete right of possession and usufruct during one's own lifetime, but also the right of bequest, that is, the right of the owner to leave it to whom he chooses after his death, and, failing his so providing, the right of inheritance, that is, the right of the children to inherit the land as successors of their father. right of free disposal means the right to sell, let, or otherwise dispose of the thing in whatever way the owner thinks fit. But that right is restricted by the common law rule, that no one must Their use his property in such a way as to annoy or be offensive to his neighbours, which reappears in public health and other legislation, restricting the carrying on of offensive or dangerous trades in populous areas.

It must be remembered that these various rights are not inherent in the original idea of property; they are only the result of a gradual development of that right. They have all heen developed out of the simple right of use or occupancy. which probably was the beginning of the right of ownership, and which in its turn was merely due to the fact of appropriation. A man took possession of a certain piece of land, and announced his intention of keeping it to the exclusion of all others. If he were strong enough to defend his right by might, he was allowed to keep it, but this by no means implied that he was entitled to give it away, even to his own family, nor to sell it to a stranger, nor to let it to some one else and draw the proceeds of it. Least of all did it imply that when he died his children were entitled to continue his possession of the land.

Note again that the rights of bequest and inheritance are Bequest v. mutually exclusive. If, as in England until the Act of 1938, a man had the right to leave all his property after his death to outsiders, then his widow and children could have no legal rights in his estate, except in the case of intestacy. Finally, in the case of intestacy and the absence of legal heirs, the right of the Crown to succeed as ultimus haeres is another reminder of the dominant right of the Crown.

All these attributes of property have become attached to the right of property in the course of the historical development of each country. The exact course of history varies in every case. In England the development of these rights can be traced quite clearly from the first introduction of feudalism into the country by the Normans.

Arguments for property.

(3) The various arguments put forward as the economic bases or justifications of private property, either in land or other forms of wealth, may be stated as follows:—

Labour basis. (a) The labour basis—"The foundation of the whole institution of property is the right of producers to what they themselves have produced". Mill claims this as a natural right of mankind, and certainly its expediency may very well be justified on economic grounds. If men are not sure of being left in undisturbed possession of the fruits of their labour they will certainly not be so willing to labour. In a new country no man will face the labour of breaking in new land, unless he is sure of at least an equitable long lease to enable him to reap the benefits of his labour.

Capital basis.

(b) The capital basis. In the same way people have a natural right to the fruits of their capital, that is, of the sacrifice which they have undergone in order to accumulate wealth for some future purpose, for capital is simply the accumulated or stored-up products of labour. This also is clearly a right which it is expedient to preserve, for if a man is not to be secured in the enjoyment of the money which he has saved, what is the good of saving?

Contract

(c) The contract basis—that men have a right to expect fulfilment of the contracts made with them—is in a way only the modern development of the labour theory. As industry becomes complex and division of labour becomes the common system, the labour test cannot be directly applied. It is impossible to say how much of the product is due to the labour of each individual person who has assisted in the production of the commodity. The wage system is therefore introduced, under which men contract with each other for a certain payment in exchange for a certain amount of work. Contract then becomes the basis of distribution, and acquires the same sanctity as was given by labour to the right of property in the result.

(d) The right of prescription or undisturbed possession. This Prescription argument is founded mainly on expediency. Whether the system of private property be good for the community or not, it is the established system, and it will not do to lav hands on it hastily or rudely. The sense of public security is essential to good government, and any rude shock to security, such as an abrupt change in the laws of property, would do far more harm than good. But this does not mean that no change can ever be made in the existing rights of property. There is no prescription of institutions. Mere antiquity does not bar reform.

It remains now to consider the arguments of those who, Arguments though in no sense socialists, yet believe that private property is the source of many of our social evils. These arguments may he summarised as follows :-

(1) In the first place it is claimed that the accumulation of Perpetuates inequality. great wealth in individual hands, and especially the aggregation of such accumulations in subsequent generations through the right of bequest, inevitably produces that unequal distribution of wealth which is the antithesis of equal opportunity. There is unquestionably some force in this argument, but there are two answers to it. The first is that a great deal has already been done to remedy the inequality complained of, by heavier taxation on the wealthy, in the form of graduated rates of Income Tax with Super Tax on the highest incomes, and also in the form of Death Duties, which in the case of large estates are very heavy. At the same time the disadvantages of lack of means have been reduced by making education cheaper and more accessible to all classes, especially with the raising of the "educational ladder" to reach the universities.

The second answer is that one can hardly imagine any remedy for such a state of affairs on the lines of redistribution of wealth which would not be destructive of the whole system of private enterprise. It would obviously serve no purpose merely to expropriate all wealth from its present holders of all classes. and redistribute it afresh to every one on the present system of private property; in a very short time inequalities would once more show themselves. That of course is quite frankly the argument of the socialists, who would not be content with mere redistribution; their object is permanent expropriation and the transfer of all private property to the socialist state.

(2) The second argument is more fundamental. It is that

land and all other instruments of production, which are indispensable to labour if any kind of production is to be carried on. should be in the hands of the state, not of private individuals. and that for two reasons. The first is that private ownership of land and capital puts labour at the mercy of these owners who may take advantage of their position to exact usurious terms from those who must have these means of production. The outstanding case of this is the alleged holding up by private owners of land in the neighbourhood of large cities, especially those that are growing rapidly, which compels the public to pay extortionate prices for land required for dwelling-houses, factories, or public improvements. It is difficult, however, to see any remedy short of nationalisation of the land which would meet the case. The taxation (or rating) of land values, if it proved feasible, would probably do something to meet the worst evils by removing the exemption from rating of urban land which, because there are no buildings on it, earns no rent and is therefore not assessed, thus making it more expensive to hold such land undeveloped; but the inequity of the state taxing "betterment" only and leaving the owners to bear the burden of "worsement" would probably compel the reformers to the full logical development of state ownership of all land. and there are very strong objections to that course. In the first

place if the state is to secure the advantage of the increase of urban land values due to the movement of population, it must also bear the loss in those country districts from which the population has been drawn away to make the pressure of urban population; and it is very difficult to say whether, if the state took over all the land, there would really be much nett gain. It is of course assumed, because here we are discussing land nationalisation not as socialism but as a measure of social

Holding up land.

"Betterment."

reform, that the state would pay compensation to the existing owners on the basis of the present value of the land.

Further, the matter could not stop with national ownership The state as of the land alone. The next question would be what to do with the land once it had become state property. Would it continue to be let (it could not of course be sold again) to private persons for building purposes and otherwise, and on what terms and by what methods? At present the state does own certain large blocks of town property, especially in London, and the action of the state as landowner is in no sense different from that of any other proprietor. But if that became the general policy of the state as owner of all the land in the country, the position of the person who wants land for industrial or other purposes would be hardly any better than before. The state land office in the interests of the Exchequer would be compelled to secure the best terms possible from intending lessees, whose position would thus be subject to the same pressure as before. Their only consolation would be that the accruing gains would go into the funds of the state instead of into private hands; but that would make little difference to those who wanted the land. Possibly, however, the state would decide to go further and to manage and exploit the land instead of merely owning and letting it; in other words the state would put up buildings and let them to tenants of all sorts. That, however, is further than most people would be prepared to go. The public have a marked distrust of state conduct of ordinary industrial enterprises. They have already had ample experience of government methods, especially during the War; and most people who are not whole-hearted socialists would shrink from extending the scope of government action to the owning of houses, shops, factories, and farms.

(3) The really scientific argument for the nationalisation of Rents. land has already been referred to in Chapter V., viz. that any form of property which is inevitably subject to the theory of economic surplus or rent should be in private ownership is theoretically unfair to the community whose necessities create

of production involves differential costs of production, economic rent must emerge, because the public must pay for all they require a price sufficient to cover the highest cost of production. that of the worst producer whose product is required to meet the demand of the market, which necessarily means that all the more favourably placed producers will receive something

Land values and the single tax.

in addition to their fair supply price. This was the argument which led to Henry George's theory of the Single Tax; he proposed that the value of land should be assessed separately from the rent of the buildings or other improvements on the land (an operation in itself sufficiently difficult), and that this land value should be subject to special taxation. This he claimed would yield so large a revenue that no other taxation would be necessary, hence the name Single Tax. If this proposal be considered as a tax, then it is only necessary to point out that it is a flagrant breach of the first principle of taxation. which is that all forms of property must bear equal taxation: anything else is not taxation at all, but expropriation or confiscation of that particular form of property. If it had been proposed that the special taxation should only apply to future increases of land value, then it was merely an ingenious method of evading the difficulty of "worsement" already referred to: but Henry George never pretended that it was anything of the sort. Quite frankly his object was the gradual expropriation of all land values; in other words it meant confiscation of land values without compensation, while leaving the so-called owners

Henry George.

community.

Again as already pointed out, the whole development of the economic theory of rent in modern times has been in the direction of showing that the idea of rent is not confined to land. Other

of the land subject to all the responsibilities and risks of the management and development of their land. That is obviously a proposal which could not come within the limits of social reform. It is socialism of the worst kind; an attempt to set up a new order of things at the expense of one section of the forms of property, which in their nature are capable of showing other rents. differential advantages, produce an economic surplus which is open to all the arguments against the rent of land. The "unearned" profits of speculators in stocks or commodities such as cotton futures, the ill-gotten gains of profiteers, the big profits of the owners of highly successful industrial undertakings, and even the swollen incomes of the most successful professional men, may all partake of the nature of rent, whether it be a true economic rent due to inherent advantages, a quasirent due to peculiar good fortune, or sometimes to particularly good management (and it is seldom possible to draw the line between these two) or merely a scarcity rent, whether temporary or more or less enduring. All of these should theoretically be as Mill argued the subject of special taxation; but no one has vet succeeded in devising any practical method of distinguishing such unearned profits from those which are really only the supply price of business ability. On the ground of feasibility, therefore, such special taxation would almost inevitably fail; but it seems unfair that merely because the profits in the case of land rent are so obvious, they alone should be singled out for special punishment.

All this does not mean, however, that any attempt to secure Nationalfor the state some part of these special rent profits must be given up as hopeless, nor that the question of nationalisation of land or anything else is to be written off as entirely impracticable. There may be certain cases in which the disadvantages of private ownership are so great that the difficulties of the alternative ought to be faced. The Report of the Coal Industry Commission in 1919 made out a strong case for the ownership of at least the coal itself by the nation, though there was much less unanimity on the next point, whether the state should confine itself to owning the coal and controlling the exploitation of mines. of the mines by private owners, to whom the coal-fields would be let by the government, much as they are now let by their present owners on payment of royalties, or whether the state should take over the actual working of the coal and become

back to the problem of the state ownership and management

Existing state industries. of industries; and during the War public opinion seemed to be moving towards a considerable extension of that principle, especially to the state ownership of the railways. question which must be considered on the merits of each case : but it is necessary to emphasise the fact that already the state in its various forms of central and local governments does carry on many important industries, and some of them with marked The post office is a huge state industry, which is on the whole exceedingly profitable, though certain sections of it, especially the telegraphs, have not yet succeeded in reaching a paying basis. No one, however, would now suggest that the post office should be handed back to private ownership. Again, many municipal industries, such as tramways, have been in some cases an acknowledged success; while there are other industries of a special character, such as gas and water supplies. which are now almost universally regarded as the duty of the public authorities, almost as much as drainage or scavenging. The point to be made clear is that the scope of government action in the matter of public services, and even of industries, is not a closed book. It has been a matter of slow development, and it is impossible to say that we have reached the limit of such development. On the contrary, it is almost certain that, just as this generation has come to accept as a matter of course certain state activities which its predecessors would have regarded as socialism, so the next generation will be prepared to go still further in the same direction. Railways have already been nationalised in many countries, sometimes with unquestionable success, and the whole business of passenger transport in London has now been placed under centralised control.

Possible developments.

> It seems, therefore, that the present generation has gone a considerable way towards the public ownership of many important services, but that we are still a very long way from accepting the socialist idea that all the instruments of production

should be owned by the state. It may therefore be convenient to state briefly here what are now generally recognised as the principles which determine the desirability of government participation in industry.

In the first place attention must be drawn to the popular Arguments fallacy that the state may safely take over any industry which industries. can be made to pay. The mere fact that the state can carry on a certain industry without loss, or can show a profit, is not sufficient to justify the state in taking it up. Even if the state, owing perhaps to its good credit and cheap borrowing power, can make an industry pay better than it has hitherto done under private management, that of itself is still not sufficient justification for state interference, especially if it is proposed that the state should actually enter into competition with private enterprise.

The real justification of state industries is either (a) that in the particular service concerned the state alone can efficiently undertake the work, because from the nature of the service the state has special facilities for supplying the public needs, or (b) that the service in question is so important that the interests of the public cannot be left to the mercy of private persons, who, of course, are inspired in the first place by the natural desire to make profit. These ideas are borne out by the following classification of industries usually and properly undertaken by the state :-

- (1) State industries in the narrowest sense of the term, where various the state is directly engaged in the manufacture of certain commodities for sale to the public, such as the Gobelin tapestries and the Sèvres porcelain factories of the French government. Here the justification of state management is that it is necessary to maintain the high quality of the goods produced as an example to others. Incidentally the goods produced are frequently used by the state itself. This idea has never taken hold in England except in the case of-
- (2) Industries which supply certain needs of the state, State needs. especially for purposes of defence, such as government dock-

yards and arsenals. Here again, the question of the quality of the goods produced is of the first importance, though in view of the great efficiency and the very high standard of modern private concerns, this feature is nowadays of much less importance. The healthy competition, however, which is maintained between the government and private contractors is all for good.

Taxed goods.

(3) In certain cases, where the goods produced are subject to heavy taxation, it may be desirable from the purely administrative point of view that the government should take over the manufacture of the goods, thus avoiding the difficulties of a system of fiscal control over private factories. The tobacco and match monopolies in France may be taken as unfortunate examples, where the results are notoriously unsatisfactory to the consumers.

Public services.

- (4) There are certain public services which, from their nature, are more likely to be efficiently managed under a public monopoly, such as water-supply, lighting, or sanitation. The features of these industries which render them peculiarly suitable for government undertakings are that they provide the community with things which are regarded in modern times as absolutely necessary, and it is felt that the public should not be at the mercy of private profit-making concerns for these necessaries. Further, they are from their nature specially suitable for management on a large scale; and owing to the large capital required there would be no prospect of securing competition among the private sources of supply, while on the other hand they would be peculiarly susceptible to the dangers of a private monopoly. Failing direct government management of such services, the best substitute is private monopoly under government control, with a time limit to the concession, so that in the event of the private service proving unsatisfactory the government may take it over at the expiry of the concession.
- (5) Lastly, there are certain services, mainly connected with transport and the means of communication, which are so eminently necessary in the public interest, and where the

efficiency of the service so clearly points to the advantages of Accepted a complete monopoly, that they have been universally reserved monopolies as state monopolies. The principal of these is the post office. where the magnitude and widespread ramifications of the service and the routine character of the duties make it specially suitable for government management, while at the same time the importance of an absolutely reliable service requires a degree of public confidence which the government alone enjoys.

It remains now to note the objections to state management objections, of industries in general, apart from the special cases where public advantage is clearly in its favour. (1) It is argued from the examination of the modern system of competition under the factory system that the pressure exercised upon the private employer by the hope of gain and the fear of loss is all in favour of securing a higher level of efficiency than can be expected from government servants with fixed salaries and permanent appointments, no matter how conscientious they may be in the discharge of their duties. (2) At the same time the system of control and checking, which is essential in all government departments, is not favourable to the free and rapid adaptation of means to ends which goes so far to secure good results. (3) Again, it is sometimes difficult under state management to Financial ensure the proper allocation of capital and revenue charges. The annual budget of a state or municipal industry is apt to be confined to revenue, without making due allowance for the capital expenditure of previous years. A state industry which seems to be earning a handsome surplus may in reality be giving a very poor return upon the capital invested in it, and the fact be concealed by the system of state debt accounts, which does not show the particular branches of state expenditure to which the moneys were applied when originally borrowed. (4) The main practical difficulty with regard to state industries is the question of the scale of rates, charges, or prices which the public are called upon Prices. to pav for the various commodities or services supplied by the state. As already stated, it is no justification of a state industry that it can be made to pay under state management; on the

Ratepayers' interests.

contrary, it is almost of itself a condemnation of any state industry that it shows a large surplus. That it does so only proves that those of the ratepayers who make use of these services of the state are being charged a higher price than is necessary to cover the real cost of supplying them. It is therefore a tax upon that section of the ratepayers for the benefit of the rest of the community. The same argument applies to the reverse case; a state industry which shows a deficit on its accounts is really a bounty or subsidy paid by the state to a certain section of the ratepayers at the expense of the rest of the community. There are, of course, cases in which such a policy may be justified by the reflex benefit to the whole community from the expenditure in question, but it must be clearly proved that that is the case.

Public utilities. Since the War we have seen the growth of another form of organisation for public utilities such as the Central Electricity Board, the London Passenger Transport Board, and the British Broadcasting Corporation. In the first two the capital was provided by the public under what practically amounted to guarantees by the Government of future earnings and they have an effective monopoly in their respective spheres of operation. The B.B.C. is really a state monopoly with a share in the Post Office revenue from licences granted to listeners.

The essence of this new form of public utility corporations is that it is a compromise between private enterprise and a state managed monopoly. The Government has more or less control over the appointment of directors but there is no direct Treasury control over the management as there would be in a state monopoly.

CHAPTER XV

MODIFYING COMPETITIVE DISTRIBUTION

Trade unions—Co-operation—Profit sharing and Labour Co-partnership—Monopolies, combines and trusts—Socialism.

TRADE UNIONS

THE policy of the modern English Trade Union falls under two heads: (1) As a benefit or friendly society it assists its members in times of difficulty; (2) as a militant society it defends the interests of its members against the employers, and of labour generally against capital, by striving for higher wages, shorter hours, and better conditions of labour in every way.

Of the benefit work of the unions nothing but good can be Benefit said, but it is admittedly not this part of the work that maintains the interest in trade unionism or keeps up the membership; the industrial policy is the real backbone of unionism.

The theory of trade unionism is based on the facts already Need of noticed, that labour is perishable, and that the average workman tion. has no adequate reserve, so that he is not in a fair position to bargain with the employer. The idea of unions, therefore, is by combining a large number of workmen in the union, to present a solid body of opposition equal in strength and fighting power to that which the employer enjoys through his position and his capital. In short, the argument of the trade unionists is that it requires such combination to make competition between masters and men really fair, especially now that the employers are also combined.

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Theory of collective bargaining.

It is hardly necessary to discuss the question whether, theoretically, the policy of collective bargaining is likely to secure results more strictly in accordance with economic theory than would be secured by individual bargaining under free competition, for on that point there can be no doubt. The greater the competition, the greater the number of individual bargains, the nearer the resulting price approaches to the economic ideal; but the whole argument of the trade unions is that such competition is not free at all, because the individual workman needs the support of the union behind him to enable him to compete on equal terms with the employer of hundreds.

How wages can be raised. First, then, can trade unions raise wages, and how? This question involves another. If trade unions are to raise wages, they can only do so either by obtaining for themselves a larger share of the present product, or by increasing the total product. The former of these alternatives again leads to another question. If labour is to get a larger share of the national dividend it must be at the expense either of the consumer or of the employers.

At the expense of prices.

The wages of a trade may be increased by raising prices, that is, at the expense of the consumers; but if this were applied to every trade, it would defeat itself, because by raising prices all round the real value of the wages in each trade would be reduced. The only case, therefore, in which this expedient may be justified is where one trade through some cause, probably the want of a union, has fallen behind in the struggle for higher wages.

The alternative is that wages in general or in a particular trade may be raised at the expense of the employers' profits. This was for many years the favourite aim of the unionists, and it can hardly be denied that in the early days of trade unions it was largely justified. There is no doubt that, in the first century of the factory system, there was much "sweating" of labour, and in many cases bad masters took full advantage of their favoured position to cut the wages of labour down to the lowest point of subsistence, and almost to the very limit of starvation. Indeed, it may fairly be argued that had that not been the case to a considerable extent, trade unions would

never have risen to the position of strength which they now enjoy, but things are different now. The masters have learned that they cannot afford to sweat their labour, not only because or of profits. public opinion is against it, not even simply because the unions are too strong now to allow it, but because it really does not pay. The best of them realise that, from their own point of view, it is not the best policy, that ill-paid labour is poor economy, because cheapness spells inefficiency, and highly paid labour really pays best in the end if it means increased product.

The piecework system was regarded by the trade unions Piecework. as specially liable to abuse in this way through employers cutting down the piece rates when good men began to earn high wages. It is beyond question that this kind of thing was done by many employers in the old days, and that is partly responsible for the objection still entertained in many trades to the whole system of payment by results. It is admittedly almost impossible to make piecework universal in certain trades, such as engineering, where "repeat" work is the exception rather than the rule, but the experience of the munition factories during the War showed how much could be done in that direction even in engineering, when the conditions of "mass-production " existed.

Of all the arguments that were put forward against the The "Wages alleged power of trade unions to raise wages, none was more generally accepted in the early days than the "fixed wages fund" theory, which is still worth considering, if for nothing else than to show how far the world has moved towards the humanising of economic theory. The argument was that wages are paid out of capital, and that the amount available for the purpose, called the wages fund, was fixed by the amount of capital which employers were willing to devote to it. The arguments which inevitably followed from such a theory were naturally very much resented by the working classes.

The national dividend theory, however, promptly exposes Refutation. the fallacy of the wages fund theory. It is not true that wages are paid out of capital; they are paid out of product, and are

only advanced or lent by capital, and the amount which may be so advanced is not fixed. The wages fund is not a separate part of the employer's capital ear-marked for the special purpose. The amount of wages depends on the amount and value of the product, that is, on the efficiency of the labourer and, of course. the machine. The source of higher earnings is increased product. and to that there is practically no limit as long as efficiency is capable of increase. That, however, varies greatly in different trades.

Increased efficiency.

This brings the argument back to the second way in which trade unions can raise wages, viz. by increasing the efficiency of their members. If, for example, the trade unions could prove that by increasing the earnings of labour the men would be enabled to live a better life under healthier conditions, leading to greater physical efficiency, or that by shortening the hours of labour the workers would have more time to devote to the improvement of their position and skill as workers, then they would be justified in pressing for better wages or shorter hours.

Objections to tradeunion methods.

Against all this we have to consider the disadvantages of trade unions as alleged by their opponents. Of these probably the chief is that the insistence upon a standard wage as a minimum for all members of the union, and their objection to grading, have led to the minimum wage becoming a maximum, and have prevented the masters on the one hand from paying higher wages to better men, and on the other from employing any one who, though not worth the standard wage, might have been kept on at a reduced wage, such as old servants now past their best years. There is a good deal of truth in this argument, but it is difficult to see how it is to be avoided. The standard wage is the backbone of the system of collective bargaining, and it is not easy to see how the unions could avoid a return to something little better than the old system of "sweating the shop", etc., if they gave up the principle of the standard wage.

Standard wage.

> A more weighty objection is the policy alleged against many unionists, though officially discountenanced, known as the "Ca' canny" policy, the idea of restricting output so that the job

" Ca canny."

will not be finished too soon, of preventing good men from increasing their output above a certain agreed figure, because it might lead to cutting the rate, or generally the idea that the less work each man does the more men will be required. This is of course the lineal descendant of the fixed wages fund theory. The same is true of many things in regard to the relations of capital and labour; the relations of to-day are embittered by the atmosphere of distrust and suspicion which was bred by the bitter experience of the men in the old days. That is a difficulty which only time and experience of better methods will cure; but it is being greatly mitigated by the fact that disputes, when they arise nowadays, are not fought out between individual masters and men, but are quickly carried to the wider and cooler atmosphere of a big organisation. At a roundtable conference of the representatives of the masters and men of the whole trade there is less likelihood of a settlement being prevented by individual ill-temper or dislike. This has resulted in a great improvement in another direction. In the early Interference days when factories were smaller and the unions less strongly masters. organised, the masters frequently complained of the interference of union officials in the conduct of the employer's business. Such incidents are less likely nowadays, in the first place because the employers know the requirements of the union and are quite able and as a rule willing to observe them; and second, because, if a question does arise, it is not discussed with individual masters, but is referred to the central organisation.

Another weakness of the trade unions is the disputes which frequently arise as to the delimitation of the relative area of Inter-union each organisation. In some trades there are two or three disputes. unions dividing the loyalty of the men in the trade, and a similar difficulty arises when two unions cannot agree as to whether certain work belongs to one or other of them. That difficulty, however, is less frequently felt nowadays, owing to the amalgamation of groups of allied trades into one union.

One question which aroused much feeling was the refusal of Attitude to members of a union to work with non-unionists, but one can unionists.

easily see the necessity of that policy from the union's point of view. It is essential that the unions should include as large a proportion as possible of the total labour force of the trade, and the members of the union who have suffered the hardships of a strike in order to gain a point naturally resent other men who have been at work all the time getting the benefit of the improvement without having shared the sacrifice. The question of black-legging in a strike is bound to cause ill-feeling; and picketing seems to be the inevitable answer.

Right to strike.

Finally, there is the much-disputed question of the right to strike. It is difficult to see how that right can be denied, for after all it only means the inalienable right of every man to choose whether or not he will work under given conditions. This, of course, is a very different matter from the desire to prevent strikes by finding other means of settling disputes. Conciliation boards, compulsory arbitration, and the like are extremely desirable; but as long as human nature remains they will not always be successful in preventing strikes. But the strongest argument against strikes is that they are very seldom necessary when the trade is well organised.

Legal position of

A word must be said as to the legal position of trade unions. trade unions. From the time when they were first made illegal by the passing of the Combination Acts of 1799 and 1800, it has been fought out again and again in the courts and in parliament. When these acts were repealed in 1824, parliament only removed the criminal disability, but did not legalise trade unions nor create any form of constitution under which they could be incorporated. The legal difficulty is that the unions are not corporate bodies; and the first attempt to get over this difficulty was when the earlier unions registered themselves under the Friendly Societies Acts as benefit societies. This, it was thought, would give them the right to protect their funds, to sue defaulters, etc.; but in a case which came into the courts in 1867 the judges denied this right, and the unions found themselves cut adrift again. As the result of the Commission on the subject then appointed, two acts were passed in 1871, one being the Trade Unions Act,

1871 Acts.

which provided a form of constitution under which trade unions could register, but still without accepting the legal consequences of incorporation, namely, the liability to be sued; the other, the Conspiracy and Protection of Property Act, provided a very elaborate code of offences in connection with trade disputes especially directed against "picketing". This second Act aroused bitter opposition from the unionists, and was finally amended in 1875.

During the 'nineties a series of decisions had been given on the question of the liability of trade union funds for losses caused to employers by the action of their members, but it was thought that no such corporate liability could attach to the union funds, until in 1901 the Taff Vale case again upset all the accepted notions on the subject and reopened the whole question. The result was the passing of the Trade Disputes Act of 1906, which 1906 Act. contained a sweeping clause to the effect that no civil action should be entertained against a trade union in respect of any wrongful act committed by or on behalf of the union. Then in 1908 the Osborne judgment raised the question whether Osborne trade union funds could be used for any other purpose than those very narrowly defined in the acts of parliament, the particular point involved being the use of the funds for the promotion of the candidature of trade union officials for parliament. As that decision involved a great deal more than it actually stated with regard to the limitation of the powers of the unions, it had again to be fought out in parliament, which in 1913 passed an amending Act. The General Strike of 1926 led to the passing of a further amending Act in 1927.

It only remains to refer to a new form of industrial organisa- Whitley tion which was started during the War, in the form of the Whitley Councils with their district organisation and workshop committees. The idea was to have a separate organisation within each trade, concerned solely with the interests of that trade; and that, by securing direct contact in the first place between the employer and his own employees through their fellowemployees or the workshop committees, small disputes would be

prevented from occurring, and would be more easily settled when they did arise. The main difficulty is that this organisation cuts across that of the trade unions, which is mainly by trades, all engineers, for example, belonging to one union whether they are employed in a locomotive shop, a shipbuilding yard, or a cotton mill.

Co-operation

Various forms.

In general terms co-operation includes all voluntary combinations among the units of any factor of production with a view to obtaining for themselves by collective bargaining better terms than can be obtained by the ordinary methods of individual competition. Thus co-operation in agriculture has usually consisted in combined buying and transport of seed, manures, and materials, combined ownership and common use of machinery or buildings involving heavy capital outlay, and arrangements for joint sale or transport of the crops of all the members. Co-operative credit associations accumulate funds by the contributions of the members themselves, to be lent out again to those members who find it necessary to borrow for capital expenditure, such as cattle or implements, or for working capital.

In England.

In England, however, the word has generally been applied to combinations (a) of industrial wage-earners to discharge the functions and secure for themselves the profits of the employer, and (b) of consumers to save the profits of the middleman or retail shopkeeper by doing his work themselves. Thus the principles of co-operation have been stated by a leading English authority as follows: "They desire to promote justice and economy (1) by conciliating the conflicting interests of the capitalists, the worker, and the purchaser through an equitable division among them of the fund commonly known as profit; (2) by preventing the waste of labour now caused by unregulated competition". In these two points are indicated at once the truth and the fallacy of co-operation in general. The fallacy lies in the idea that co-operation can in some way eliminate

Holyoake.

profits. The real strength of co-operation lies in the other idea; if there are too many middlemen, and by co-operation some of them can be done without, then it is an undoubted advantage.

The proposed division of "the fund commonly known as The theory. profit" among the capitalist, the worker, and the purchaser, suggests two kinds of profit: (i.) manufacturer's profit, and (ii.) the profit of the merchant or middleman, and of the retailer or shopkeeper. Corresponding to this division there are two kinds of co-operation: (i.) Co-operative production professes to eliminate the employer's profit by dividing it among the workers. The method proposed is that the capital necessary should be subscribed by the workers themselves and should receive a fixed rate of interest, that the workers should receive the trade union rate of wages and the manager a fair salary, and that the balance at the end of the year should be divided among all the employees in proportion to their wages. (ii.) Co- Eliminating operative consumption aims at eliminating the profits of the retail dealer by dividing them among the consumers. The co-operative store is run by a committee and a manager, who receives a fair salary. Goods are sold at ordinary prices, and the profits are divided at the end of the year among the members according to the amount of their purchases. Allied to this is the system of co-operation in marketing by the producers, which is also directed to saving the profits of the middleman.

Co-operative consumption has admittedly been the more Retail cosuccessful of the two in England. There can be little doubt operation. that there were too many middlemen in the country; the shopkeeping trades were overcrowded, and the turn-over of each shop was so small that the oncost was quite out of proportion. By combining many small shops into one large store the cooperative societies were, or ought to have been, able to effect considerable savings. But the mistake which many co-operative committees made in the early days was in not realising that the qualities which make a good business manager are special, and must be adequately paid for, or the profits to cover his

salary will not be earned. In trades where the supply of employers is large and the entrance to the trade easy, and nowhere are these conditions more completely fulfilled than in the retail shopkeeping trades, the competition is so keen that the profits of the retail trader are cut down to the barest possible supply price.

Committee management.

Again, it is a commonplace that committee management is very bad for a business undertaking; it hampers a good man, and co-operative committees were at first inclined to be suspicious and to interfere more with the management than was good for the business. On the whole, there is little room for doubt that the management of the co-operative stores in the early days was not so good as that of their private rivals. The result was that the goods sold by the co-operative stores were in many cases not quite so good nor quite so cheap as could be bought in the best retail shops. In other words, the co-operators paid a little more for their goods, and only got back part of the difference in the form of dividend; the rest was lost by inferior management. Against all this, however, it must be remembered that the dividend system is a great blessing to many people, who but for the help of this compulsory saving would never save at all. Further, the habit of saving is only one of many things which the co-operatives have taught their members. They have done excellent work in providing educational facilities beyond the ordinary school age, not only in general subjects. but also in economics and in citizenship. While insisting on the payment of fair wages to the producers of all the goods they buy, as well as of course to those employed in the factories of the wholesale co-operative societies, they have done much in training their members to appreciate honest quality in their goods rather than cheapness alone.

Good work done.

One more point must be noted in favour of the co-operative societies. They have certainly done much, by force of competition, to secure for the public at large, as well as for their own members, the best possible prices in every class of goods. Their competition compelled the retail dealers to cut their prices

to the lowest point, till by the end of the nineteenth century the retail trades were reduced to the lowest possible limits of profitable industry—indeed in many cases below it. But if the co-operators had been successful in clearing out the retailers altogether, it is doubtful whether this would have continued. Without Safety in competition with the retailers, it is to be feared that the drawbacks of co-operative management might become more serious, and the consumer would, in the end, be no better served than he was by the retailers. That question, however, is not likely to arise now, as the development of the huge department stores and of the multiple shop system has enabled the retailers to secure most of the benefits of large turn-over, and to hold their own against the co-operatives.

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Returning to co-operative production, it has so far been Co-operative practically a failure in England, as far as manufacturing is production. concerned. The only form in which it has been successful on a large scale is that of the wholesale co-operative societies, which manufacture many different commodities in huge quantities for sale through the co-operative stores. These, however, are only capitalist concerns owned by the co-operative stores; the only difference between them and any other private factories is that in some cases the workmen receive a bonus on their wages out of the profits. Of the other really co-operative schemes which are fairly numerous but mostly small, practically the only ones that have been successful are those which have the advantage of a secured market, such as the London gas companies, and some who are closely associated with the retail co-operative societies to whom most of their goods are sold. There are very few cases where in a really competitive industry, that is to say, where the goods must be made to tempt demand and in open competition with ordinary producers, such schemes have been a permanent success on a large scale. The reasons for this failure seem to be that in a factory the manager's services are still more important than in retail dealing, and that in the conduct of a large manufacturing business committee management, with all its attendant clumsiness and inconvenience, is

simply impossible. In other words it means that in manufacturing, as in retailing, the employers' profits are mainly a supply price which must be paid or they will not be earned, and that in the factory system there is not the same waste of labour owing to over-competition and the multiplication of producers as there was in the retail trades.

In agri-

In agriculture, however, the idea of co-operation seems to have found greater scope and better prospects of success. Germany led the way with a characteristically thorough organisation of two forms, one specially adapted to agriculture and the other to small industries, which have been to a large extent the model for all other countries. In Denmark the co-operative societies for handling dairy produce of all kinds practically created the industry. All over the Continent, and even in the United Kingdom (though the greatest development so far has been in Ireland), the extension of co-operative methods to every department of agriculture in recent years has been hopeful.

PROFIT-SHARING AND LABOUR CO-PARTNERSHIP

Profit-sharing, strictly speaking, does not fall within the group of special movements at present under discussion. The principle which runs through all of these movements is to secure, by combination among the units of a group of people, better terms than they could secure by individual action, and there is nothing of that element in profit-sharing. There the idea is that in order to secure the co-operation of the workers through self-interest the employer should voluntarily give the workers a share of the profits earned by the industry. Great hopes were entertained of the possibilities of this movement, and it was hailed by many as an entirely new system, which would revolutionise industrial relations.

Limits of profitsharing. In the first place, it is necessary to define carefully what is meant by profit-sharing. Many schemes so called consist of nothing more than the paying of a bonus to the workers on

their wages, but that does not really come within the definition. The name profit-sharing should be confined to those schemes in which the payment is dependent on there being profits, and is in some way proportionate to the profits. The movement, however, has not yet reached great dimensions in any country. The first difficulty is that if the sharing of profits is to be real Losses not it ought also to include sharing of losses; but that is obviously shared. impossible, because even if the trade unions would allow what would necessarily mean a reduction of the standard wage in bad years, it is certain that very few workmen could afford to take such a risk, and very doubtful whether their loyalty to the scheme would stand the strain of a succession of bad years. This means that provision must be made for a reserve fund before calculating the divisible profits; and in most businesses, taking one year with another, that would not leave very much for division, especially as the percentage of the total nett profits which would be divisible among the workers cannot be large, if the shareholders are to receive a fair dividend.

Again, the conditions attached to the right to receive the share of profits are usually rather stringent, including a certain period of length of service. Further, in some cases it is stipulated that part at least of the profits earned should remain in the hands of the employer at the credit of the worker, or should be invested in the shares of the company, though as a rule the latter is left to the option of the workers. In passing, it should be noted that where workers own shares of the company, which they have purchased in the ordinary way, that does not come within the definition of profit-sharing as here discussed. This Attitude of point of the acquisition by the workers of a permanent interest in the company has naturally caused some hostility to such schemes by the trade unions, for it is obvious that if a man has such an interest he is less likely to be prepared to sacrifice it by joining in a strike, which, as is generally stipulated, would involve the loss of his shares or accumulated profits.

It seems, therefore, that there are considerable difficulties in

schemes, and it is not surprising that this has led to the formulation of other schemes which possess some of the advantages of

Labour co-partner-

> Workers' directors.

profit-sharing, along with others which may be regarded as still more attractive in a different way. One of these is known as labour co-partnership, a term rather loosely used to indicate schemes which provide for some form of participation by the workers in the actual control or management of the industry. especially as it affects their own interests, as, for example, in regard to the conditions of labour in the factory, the fixing of piece-work rates, etc. Some firms have gone the length of appointing workmen to the board of directors, and that is a development which, it would seem, ought to do a great deal of good and might be carried further. There are, however, obvious difficulties in the way. If the director is really to represent the workers he must be selected by and responsible to them, which involves that the information he receives as director must be open to them, or else he must run the risk of losing their confidence. Either alternative is difficult, for there must be a great deal of confidential information communicated to the directors which could not be passed on to the workers through their representative, for that would be equivalent to its publication. Short of this, however, it has been proved by some of the more advanced firms that a substantial amount of real control can be given to the workers' representatives in matters which most directly affect them; and the advantage gained through the fostering of the feeling of mutual interest in the success of the firm is very real. The real difficulty of such schemes, however, is that the questions upon which the success of the business turns depend largely upon conditions which lie outside the factory, such as markets, both for the purchase of their raw materials and for the sale of their products, and the decisions which must be taken on such questions involve risks which the average worker is neither qualified nor as a rule willing to take. Risk-taking is the mainspring of modern industry, and the ordinary working man has neither the know-

ledge and experience required, nor in most cases the peculiar kind of character which is involved in the taking of such risks. That is no discredit to the workman, but is partly the result of his training and his position; he cannot afford to take risks.

Monopolies, Combines, and Trusts

A monopoly, in the strict sense of the word, is an exclusive right granted by the state to a company or an individual to carry State on a certain business or undertaking, or to manufacture or sell a certain commodity. It is often forgotten that though the old monopolies of evil repute, such as that of the sale of salt, have all been abolished since the time of the Stuarts, there are still in this country many important monopolies either held by the state or by local authorities, or granted by parliament to public utility companies. Thus the Post Office is a huge state monopoly; many public services, such as gas, water, and electricity or tramways, are either in the hands of the local authorities or granted to private companies with exclusive privileges, while the railways, especially since the new grouping arrangements came into force, are virtual monopolies in their own areas. A grant of letters patent for an invention is, of course, an exclusive right for a limited period.

Nowadays, however, the word is generally used in a wider Modern sense as meaning any combination of employers, or even a single large firm, which holds so important a position in a certain trade that it practically controls the whole trade and can rule the price of the commodity. Such a combination is usually called a trust in America, which is, indeed, the home of such adventures.

Selling combines may be either permanent or terminable. In The trust. the former the various firms or companies forming the combine generally cease to exist as separate organisations and are merged in the new company, which takes over their whole assets. original form under which such combines were first established in America was known as a trust, because the whole shares of

the constituent companies were transferred to trustees, who thus held the whole assets of the combine and became in effect the directors of the new organisation. This form of organisation was originally invented by Rockefeller for the Standard Oil Trust; and when it was declared illegal in 1892 it was succeeded by the new form of incorporation, a new company taking over the whole assets of the combine formerly held by the trustees indirectly. This latter form was the one generally adopted by the English combines.

Classification of combines. Modern combines are, again, frequently classified as *vertical* or *horizontal*. The former indicates the complete integration of the various parts or processes of one industry from the raw material up to the finished product. Thus one company may own coal-pits, iron-mines, blast furnaces, steel works, shipbuilding yards and engineering works, so that they can turn out a complete finished article such as a steamer in their own works from beginning to end. A horizontal combine, on the other hand, means an amalgamation of the majority of the factories in one section of an industry, such as the calico printers. Many of the combines of to-day are both vertical and horizontal, holding a number of factories in each of several stages of one industry.

Terminable combines (or arrangements of the nature of a combine, for many of them are so loose as hardly to deserve the full name) take many different forms which may be classified according to the degree of control exercised by the central organisation. This may extend to (a) conditions of sale only, (b) the prices charged, and (c) the output of the constituent companies.

Conditions of sale.

(a) "Conditions agreements" enforce upon the parties uniform trading terms only; they are intended to eliminate various practices which involve disguised cutting of prices in such forms as special discounts, favourable credit terms, or other privileges accorded more or less secretly by one trader to secure business at the expense of his rivals. The original idea of most of these agreements was to enforce uniformity of con-

tracts and to prevent disputes by providing standard rules for settling them, such as the York-Antwerp rules in marine insurance. They also included compulsory agreements to accept the decision of certain bodies in case of dispute, such as the Bradford Testing House or the Appeals Committee of the Liverpool Cotton Association.

(b) Price-fixing associations went a step further by providing Prices. uniform price lists to which all the members of the Association agreed to conform. Sometimes it was hardly more than a vague agreement, under which prices were fixed (sometimes with local variations) by certain trade bodies, and most of the trade followed suit. In some cases such associations were only a "gentleman's agreement", but in others the obligation was definitely imposed upon every member of the association, with severe penalties for breach of the list prices. There was of course great variety in the methods of control and in the machinery adopted for fixing the prices and for their enforcement. Generally they included only one class or stage of the industry, such as the manufacturers, the wholesale dealers, or the retailers; but sometimes the one class imposed their prices on the next, as, for example, the manufacturers upon the wholesale and retail dealers in the case of tobacco

These price agreements, however, revealed two elements of Lack of weakness. In the first place, the attempt to fix prices only, without control of output, proved almost useless, because each manufacturer, being anxious to increase his turn-over in order to reduce costs, was tempted to adopt all sorts of indirect devices to attract customers while nominally observing the price agreement. This led to disputes as to whether a particular member was undercutting by some such method, and if a member were convicted of breach of agreement there was no sanction behind the penalties, because, being an agreement "in restraint of trade", the courts would not enforce it. Thus these agreements

(c) Agreements for the regulation of output. The simplest Output. form of these was the general agreement to run short time, as in

in many cases either broke down or led to the formation of-

The quota.

the cotton trade, but the more complicated organisations known as syndicates or pools have taken various forms. may operate by controlling production, so that each member is limited to a certain amount to be manufactured every month or year, known as the quota. In other cases the quota applies to the amount each member is allowed to sell within a specified area, the members being allowed to "dump" their surplus production wherever they can find a market and at what price they like. This was the form of the classic prototype of these arrangements, the "Newcastle Vend", under which every mineowner was limited to a fixed amount of "sea coal" exported by sea, but there was no limit on "land sales". It was also the characteristic form of the German "Kartels"

Another form of combine, short of amalgamation, was to leave

each member free to produce and sell as much as he liked and at any price, but the profits were pooled and divided among all the members according to a prearranged quota or proportion. But the great bone of contention in all these schemes was the fixing of the quota, and the result very often was either that the agreement broke down or else it led to the adoption of still closer co-operation, which in effect became a combine or merger. Even that, however, could be done in different ways. Some-

times, instead of a new company taking over the whole assets of

the old firms, one of these would assume the leadership by acquiring a controlling interest in the ordinary shares of all the others. This had the advantage of making less outward change (which may cause loss of goodwill) and also of requiring less new capital. because the debentures and preference shares of the constituent companies need not be disturbed at all. Again, the combine sometimes took the form of a "holding company" acquiring a majority of the shares of the old companies, and the power of voting upon these shares gave the holding company in effect the

Pooling profits.

Various forms of

combine.

control of all the companies. The main advantage of the more complete form of amalgamation is that it gives the central organisation power to deal with the plant of all the factories, etc., as a whole. Thus it is possible to

Specialisation.

arrange the work among them so as to secure the greatest possible specialisation—one mill, one product; and if it is found possible by that means to concentrate the whole output in a smaller number of mills a few of the least efficient may be closed down altogether. The difficulty is that the purchase of these "lame ducks", as they were sometimes called, involved additional capital; and if they formed an excessive proportion of the total this might result in over-capitalisation of the whole concern. On the other hand, if left out of the combine they might cause far greater loss by desperate competition.

Finally, reference may be made to another form of combine Shipping in the shipping trade, namely, the shipping conferences or rings, the parties to which, in order to secure all the traffic for the regular liners, agree to give a rebate on the usual rates to any trader who undertakes to make all his shipments by their steamers, including not only odd parcels but also full bulk cargoes which a tramp steamer might be willing to take at lower rates.

SOCIALISM

Socialism, in the generic sense of the term, includes all such schemes as are intended to further the claims of society for social purposes as against the present system of individualism, or to promote the interests of the whole as against those of particular classes and individuals, the object of all such schemes being directly or indirectly revolutionary, as distinct from mere reform of the present system. Thus socialism seeks (1) positively to promote the good of society as a whole rather than of individuals, and (2) negatively to destroy individualism. It is thus the direct antithesis of the present economic system.

The first point to be kept in view is the broad distinction Not merely between socialism and social reform. Many people call them-reform. selves socialists although in reality what they want is merely social reform. The various schemes which are really socialistic may be classified according to the degree of state interference involved in their proposals. Thus there are: (1) Schemes

Anarchism.

which involve the abolition of state control, such as anarchism. This was originally a form of socialism, of which the main idea was to do away with all state control and leave every man free to do whatever he liked.

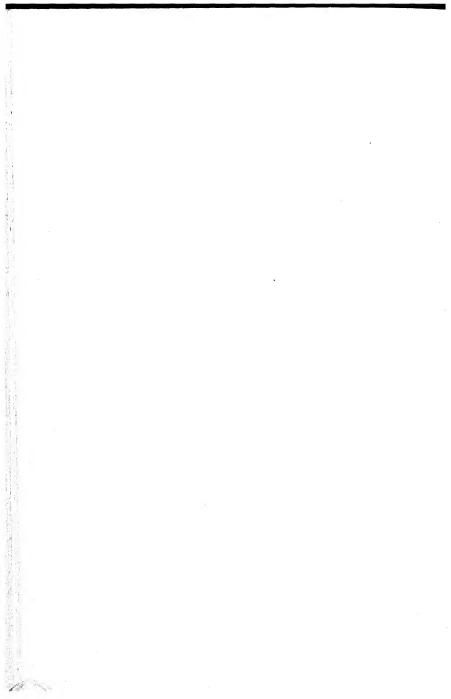
Intra-state communism. (2) Schemes to establish within the existing state self-contained socialistic or communistic communities, such as Robert Owen's in Scotland, and many similar institutions in America. Experience has shown that, while these have been successful to a certain extent in small communities, the idea is generally a failure when any attempt is made to work it on a large scale; indeed, its success, even on a small scale, is due to the fact that in these small communities the whole direction of the affairs of the community rapidly comes to be centred in one strong man, who takes the lead; in short, it becomes a benevolent despotism.

State socialism. (3) Schemes involving more state control, either by legislation or state administration. The extreme form, which usually passes in modern times under the name of socialism, is collectivism, or state socialism. Some of its advocates would seek to obtain it by force immediately; others prefer to work gradually towards their ideal by more peaceful and gradual methods.

Implications of collectivism.

Collectivism or state socialism means the substitution of collective or state ownership and management of all the factors of production, and the substitution of state organisation of industry for competition. As a logical conclusion, this would also imply state control of distribution. Obedience to authority would take the place of free enterprise or contract. Demand would be estimated and supply regulated by authority and trade and exchange abolished, for all products would be the property of the state, and would require to be distributed by the state. Money would, therefore, be unnecessary; indeed, many socialists regard this as one of the most essential and desirable of the reforms which would follow from socialism. They maintain that money is the cause of most of the abuses of the modern system of individualism, because, for example, it conceals the exploitation of labour by the capitalist. Again, inheritance and bequest

would be abolished, because the socialists say that these tend to perpetuate the inequalities of wealth which are at the root of the evils of the present system. The whole system of capitalistic production is condemned for the same reason, because it tends to the separation of society into two great classes, the very rich and the very poor.



CHAPTER XVI

THEORY OF INTERNATIONAL TRADE

The advantages of foreign trade—The theory of comparative cost—Free trade v. Protection—A question of policy, not principle—Protective v. revenue duties—International trade a return to the system of barter—The law of the Balance of Trade—Exports and imports, visible and invisible.

It is commonly thought that the principles of international trade are in some way different from those which form the theory of value in regard to trade between individuals in the same country, but this is misleading. In the first place there is a popular misconception arising from the name international trade. International trade does not mean, as the name would imply, trade between governments.¹ On the contrary it is conducted almost entirely by the individual traders of the different nations. Thus when we say that England imports cotton from America what we mean is that Liverpool cotton merchants import cotton from exporters in Houston, Texas, and the motives which lie behind such trade are exactly the same as those involved in trade between individuals at home, namely, to make money for themselves. The world's traders are private individuals working for their own profit.

But when it is pointed out, as will be explained later in this chapter, that the value of the exports and imports of each country must on the whole balance each other it may be asked what is the good of foreign trade if both parties give and receive exactly the same value. In this respect foreign trade is the same as between individuals in the same country. What is the

an article of the same value as he gives? The answer is as already explained in Chapter III, that while the exchange value or price is the same, the subjective values of the articles exchanged are different to the two parties. So in foreign trade, while the money value of exports and imports is the same to each country, that does not represent the real advantages of the exchange. The theory of foreign trade is very like the theory of the division of labour. Each nation should produce those things which it can produce to the greatest advantage, just as in division of labour between individuals each individual should be put to the work he can do best. The causes of these differential advantages between nations vary greatly, but in most cases they can be expressed in some form of the idea of cost of production. Owing to differences of climate, geology, or industrial history, one country can produce certain things more cheaply than another. or which the other cannot produce at all. Thus a nation whose soil and climate are adapted to growing cotton should, under this theory, devote itself mainly to growing cotton, exchanging it with some nation whose command of other raw materials. such as coal and iron, renders it especially suitable for manufacturing. In this way every nation gets the benefit of the special products or facilities for production of every other nation, and the total world's production is the greatest possible. It is to the advantage of all the world, for example, that Egypt should grow fine cotton, while Lancashire with its humid climate should be devoted to fine spinning. Not only will this pay the world at large best, but it will also be the most profitable course for each of the countries concerned, and if the trade between nations were left entirely free from artificial restrictions, the effect of competition would be to produce this ideal distribution of productive capacity.

Differential costs of production.

> An anomaly.

This theory sometimes produces the anomaly that it may actually pay a country to import something from abroad which it could produce more cheaply at home, if the imports can be paid for with something else, in the production of which the first country has a still greater advantage. Thus it pays England, the finest dairy country in the world, to import dairy produce from Denmark, paying for it with coal and manufactured goods, for Denmark has no coal at all. It pays each country therefore to devote itself to that branch in which it has the greatest advantage. In the same way, it might pay an individual to buy from others something which he could make better or more cheaply himself, if by doing so he could devote himself to some other branch of production in which he has greater advantages.

The theory of international trade is therefore that each country should produce, not merely what it can produce more cheaply at home than it can buy from abroad, but what it can produce to the greatest advantage. This is known as the theory of comparative cost. What must be considered in each Theory of case is not the cost of producing the commodity in one country comparative as compared with the cost of importing it from abroad, but rather the comparative cost of producing each commodity in the two countries.

It follows from this that certain commonly accepted views of the advantages of foreign trade require revision. If the man in the street were asked whether the advantage of our foreign trade lies in the imports or the exports, he would probably say the latter. Our imports, except the raw materials Popular of our industries, are, from this point of view, regarded as at best a necessary evil. We must also, of course, import exotics, that is to say, those foreign commodities which, owing to climatic and other conditions, cannot be produced in this country, such as cotton or tea; and it hardly affects the question whether these things are raw materials for our industries or conventional necessaries for our food supply. But when it comes to foreign articles of luxury, such as champagne, for example, the advantage is regarded as doubtful, and when we reach the final case of foreign wheat, which we obviously could grow ourselves, the import is looked upon as an unquestionable evil. From this point of view, then, the desirable

Exports v. imports.

part of our foreign trade is our exports. That we should supply all the world with manufactured articles, the products of our great industries, seems to be regarded as the chief object of our existence, and the best test of the prosperity of these industries. Yet that all our exports are not regarded as equally desirable is apparent when we come to discuss the export of raw materials, such as coal.

What is the underlying idea of this attitude? Apparently it is that exports should be encouraged because they provide an outlet for the products of our home industries, but that nothing should be exported which might be used at home for these industries. Imports, on the other hand, are harmless only when they provide materials for our industries, and are most objectionable when they consist of commodities such as wheat, which might be grown at home. When imports consist of manufactured articles directly competing with the products of our own home industries, no condemnation, it seems, can be too strong.

All this points to an apparent misconception of the object of our home industries, namely, that these industries exist primarily for the purpose of manufacturing goods for export, that the business of this country in the world is to manufacture goods for all the rest of the world, that any other nation which, inspired with a similar idea, tries to cut us out in what are fondly regarded as *our* foreign markets, is in some way meddling with that part of the world's business which belongs by right to us, and that any nation that tries to send manufactured goods into our country has not merely committed the folly of sending coals to Newcastle, but is actually guilty, as it were, of some sort of trespass.

Home and foreign trade.

The root of the fallacy lies in the idea that the main object of our industries is to make goods for export, that we live by foreign trade, and that our foreign trade is more important than our production for home consumption. It is the idea of the manufacturer converted into a national policy. The manufacturer makes his living by making goods which he

almost never uses himself, and selling them to somebody else. But that is not the true model for a nation's policy. A nation is not a factory turning out goods for sale to other nations. Still less is it a merchant or shopkeeper buying and selling other nations' goods, and making a profit on the turnover. Its position should rather be like that of the old yeoman farmer, whose land produced most things that he required to feed and clothe himself and his dependents, leaving a surplus to exchange for such luxuries as he could not produce himself. The prime object, then, of a nation's industry is to feed, clothe, and house her own population, who are the chief producers of all her manufactures, and are entitled to consume the major part of them. But as the manufactures are partly dependent The nation's on the use of foreign raw materials, these also must be paid for by a share of the finished commodities; and if, as in these days, when we lay the whole world under contribution for the satisfaction of our high and complex standard of living, our workers want tea, coffee, cocoa, tobacco, spices, and a thousand other things that we cannot grow ourselves, it is only right that we should pay the producers of these foreign commodities with part of our manufactured goods.

The nation's exports, therefore, are only its surplus, which it exchanges for those foreign products which it cannot produce itself. Wherein then lies the advantage of this exchange? Clearly, if one must choose between the exports and imports, the advantage lies in the imports. We give of our abundance of cheaply manufactured goods in exchange for other commodities which, because we cannot produce them at all, or so Function of easily as the foreigner, we value more highly than the things we produce ourselves so easily. The gain to us is in getting something which is worth more to us than what we give in exchange for it; in other words, the gain lies in the imports rather than the exports.

This, of course, must not be taken as in any way detracting from the real advantage and value of our export trade. If, for and exports. example, the turnover of the cotton trade is substantially

increased by our exports of cotton goods, the effect will probably be, owing to the economies of large production, that the cost per pound of yarn or yard of cloth produced in this country will be so much the less, and our own home consumers will benefit by this reduced cost of production. Here, too, lies some consolation for the much-regretted imports of wheat, &c., which might be grown at home. These imports had to be paid for in goods, and the effect was not only that the textile operatives had good wages to spend, and cheap bread for themselves and their families, but also that the farmer himself, who was suffering by the low price of his wheat, found the price of everything else he bought more or less reduced in consequence.

National trade policies.

But while this theory of comparative cost is the basis of the economic theory of international trade, it is, unfortunately, not the principle which actually rules the trade policy of the nations. It is an ideal of what things would be like if the world were ruled with no other interests in view but those of the world as a whole. But that is not the way the world is ruled, and we never had more cause to realise it than to-day, For many reasons, geographical, ethnographical, and historical, the world is divided up into separate nations, whose trade policy is ruled by frankly selfish national aims. Never has a prophecy been more completely falsified than was that of the Free Trade leaders in England in 1846, that within five years after the triumph of the Corn Law agitation in England every other civilised country in the world would be following our example. It is well, here, however, to enter a caution against the idea that England adopted the policy of Free Trade because it was the international ideal. The truth is that we adopted that policy because, under the particular circumstances at that time, it was the policy which was likely to suit our own interests best. We failed to realise that though that policy suited our conditions, it did not necessarily suit those of other nations, nor indeed would it necessarily suit ourselves best if conditions should change. But the rise of the German school of national economists brought out the difference between their position

England's position.

and ours, which was indeed the difference between our position and that of most of the other nations of the world.

The question of Free Trade or Protection, therefore, is no Policy, not principle. longer a question of principle but of policy. Most countries have adopted a certain degree of Protection, i.e. they have thought it advisable to interfere more or less with the natural flow of industry, so as to attract or divert it into what were thought to be the most desirable channels.

It would, however, be going to the other extreme to imagine that the theory of international trade has been entirely disregarded, or that the distribution of the world's productive capacity has been on the whole arranged in despite of it. On the contrary, the great bulk of the world's industry is, as a matter of fact, carried on in the countries best suited for it. Lancashire does not grow cotton, nor Egypt spin her own crop to any great extent. What has happened has rather been The actual that many nations have endeavoured to modify the conditions existing in their own country at particular stages of its development, so as to overcome temporary obstacles to the development of certain industries, which they regarded as necessary or desirable for the full development of the facilities which they believed their country to possess. It is true that these restrictions, begun as temporary measures, have in most cases been very difficult, and in many cases impossible, to get rid of; but this does not alter the fact that on the whole the world's trade until the War was following the international theory of comparative cost, and that the cases in which one nation was persistently carrying on an industry at a loss were comparatively few. Unfortunately, as will be seen in the next chapter, all this has become much less true since the War.

It remains to be noted that the mere fact of the existence of import duties does not necessarily mean protection, because such duties may not be protective at all, but merely for revenue purposes. To make this clear, the distinction between revenue and protective duties must be kept in view. Duties charged upon goods may be of two kinds—(1) Customs

Customs v. Revenue duties. duties charged on the import of goods into this country, and (2) Excise duties levied upon goods made in the country. When the same rate of duty is charged upon goods imported into the country and also upon similar goods made or grown in the country, it is merely a revenue duty. But if customs dues are levied on goods imported, while no excise duty is charged on similar goods produced in the country, the result is clearly to protect the home industry. A protective duty may thus be described as a customs duty not balanced by a corresponding excise duty. The import duties in England before the War were therefore not protective, because all the goods upon which the customs duties were charged were not grown or manufactured in the country at all. Import duties were only charged upon "exotics"—that is to say, upon goods which cannot be produced in the country, such as tea, tobacco, &c. The only other heavy import duty in England, that on spirits and wines, was balanced by an excise duty on all spirits made in the country, so that it had no protective effect.

THE BALANCE OF TRADE

There is, however, another point to be noted with regard to international trade. In inland trade the use of metallic coinage in commercial transactions has been reduced to a minimum by the development of banking and the use of cheques. In foreign trade this tendency is carried still further. International trade is carried on almost entirely without the passing of money; it is really a return to the system of barter. Every country exports just as much as is required to pay for its imports, and imports just as much as it can buy with its exports.

Really barter.

It is obvious that this must be so; because if any nation were importing persistently more than it exported and paying for the balance every year in gold, its gold supply would soon be seriously diminished. The result, according to the quantity theory of money, would be a general fall of prices in that

¹ See the Mechanism of Exchange, chap. iii.

country; every one would be very short of money, owing to the fall in prices and consequent depression of trade, and would be compelled to reduce his purchases, especially of foreign goods. Thus the current of importation would be checked. At the same time the cheap prices at home would tempt foreigners to Imports and come and buy, thus giving an impetus to exports. The result exports. would be to redress the balance of trade by reducing imports and increasing exports, until the excess of imports, which was the beginning of the trouble was wiped out. It is therefore impossible for any country to be always importing more than it exports and paying for the excess in gold, and the same process reversed would apply in the case of a persistent excess of exports. The very fact of an excess either way would tend to check itself. The result is embodied in what is called the law of the balance of trade. Every importation when it takes the form of a regular current, necessarily provokes and determines a corresponding exportation, and conversely.

But on examining the actual customs returns of exports and imports of any country, they do not seem to bear out this law at all. On the contrary the customs returns of England, for example, show that before the War she imported annually nearly £150,000,000 more than she exported. What is the reason for this apparent discrepancy? It is quite evident that such enormous balances could never be paid in gold because the total supply of gold in the United Kingdom would have been little more than enough to pay for a single year's excess of imports. There are, of course, countries like South Africa which produce gold as one of their commodities for export, and in such a case we find a steady outflow of gold, which is their means of paying for their imports. Again, it is true that in every country there are occasional exports or imports of bullion which help to redress a temporary excess of imports or exports of other commodities. Egypt, for example, had before Seasonal the War a periodical inflow of gold in the autumn, and outflow movements. in the spring, which corresponded to the seasonal swing of her trade, from a great excess of exports (chiefly of cotton) in the

autumn, to the opposite excess of imports of manufactured goods in spring. England, on the other hand, had a continual but fluctuating movement of exports and imports of bullion because England was the world's free gold market. A large part of the world's annual production of gold found its way to England for sale and distribution to the other financial centres which required it, or could afford to buy it.

The true

All this, however, does not alter the fact that the great bulk of the trade between nations is barter of exports for imports and that the apparent normal excess of imports in some cases, and exports in others, is squared by other items of indebtedness between nations which, though they do not appear in the customs statistics as goods, are nevertheless effective payment for goods, and therefore render payment of the apparent balance unnecessary. We have next to consider, therefore, the nature of these invisible imports and exports, as Sir Robert Giffen first called them, to find out their character and probable amount, and why they do not appear in the customs statistics. In the meantime, however, they may be defined as follows: An invisible export is something that enables a country to import goods without paying for them directly by the export of other goods and conversely, an invisible import is something which makes it necessary for a country to export goods without receiving payment directly in other goods.

Customs statistics.

First, then, it is necessary to consider how the customs statistics of exports and imports are made up. Every ship that enters or clears from a British Customs Port (and no ship may enter or leave the country by any other than a customs port) must make a declaration of the quantity, value, origin, and destination of the cargo, and that whether duty is payable upon the cargo or not. As our import duties were, before the War, confined to a comparatively small number of articles, these declarations frequently involved no payment, but the returns made are the basis of all our foreign trade statistics. This is, of course, the only possible method of recording the movement of foreign trade, but it obviously fails to note the passing of

Leakages.

certain items, which from their very nature must escape the customs system, because it is based on the passage of corporeal goods through a given point. These are services rendered by Interthe members of one nation to those of another, and which have services. no corporeal existence, or which may be rendered entirely outside of the customs area of any country, namely on the high seas. The greatest and most obvious of these is the service of carriage or transport. Transport of goods from one country to another is an essential part of the process of production of a valuable commodity, and as such must be paid shipping. for: the goods at the end of the voyage are actually worth more than they were at the beginning. These services then, which result in an increase of value, must be paid for out of that increased value, and their value will be payable to the owner of the ship which renders them, in whatever country he may have his head-quarters.

Now England owned before the War about one-third of the world's mercantile marine, and her share of the world's shipping trade is larger even than is represented by the proportion between British and foreign ships entering her own ports. For many of her ships are doing the world's work of carrying, not merely from British to foreign ports, but between other ports abroad. A tramp steamer, for example, leaving a British port with an outward cargo, may carry many foreign-owned cargoes from one country to another, before she finally picks up a cargo which brings her home again to a British port: or even on the homeward run her cargo may be for Antwerp or Hamburg, from which port she will return "light" to a home port, to load outwards again. Or having delivered her outward cargo in New York, she may be chartered by American owners to carry cargoes back and forward between say New York and the West Indies, and may run up and down in that trade for years, till it is time for her to seek a homeward cargo again, that she may undergo her survey or periodical overhaul. Many British lines maintain a whole fleet of coasting steamers plying to and fro between foreign ports, and some of these steamers

have never seen a British port since they first left one on their maiden voyage.

England's share. All this means money due to the British shipowner for freights, and the payment must find its way in some form to London or Liverpool, where the owner's office is. In the old days, the owner's freight was often paid in a share of the cargo, and the legal right of retention or lien over the cargo, which the owner and master still enjoy for their freight and disbursements, is founded on the fact that they are entitled to payment out of the value of the goods for the share in that value which they have created by their services. It is, in fact, out of the price realised for the cargo that the freight is ultimately paid; and the effect is that the full value of the goods as they appear in our customs returns of imports is only partially covered by the export value of the goods which are sent abroad in return.

The world's balance of trade.

This difference between export values and import values is the explanation of the puzzling fact that the world's total figures of exports are apparently less than the world's total imports. This is, of course, obviously impossible; as a matter of fact, many a cargo that leaves port never reaches its destination. The explanation of the apparent mystery is, of course, quite simple when the fact of the added value due to the service of transport is taken into account. Apart from the probability of inaccuracy in the returns made to the customs authorities, which would naturally tend to an under-valuation of imports, because customs duties are as a rule heavier on these than on exports, the discrepancy is due to the difference between what are called F.O.B. and C.I.F. values. The declaration of value made by the exporter when the goods are put on board is naturally based on the value at that point, that is to say the original price of the goods plus the cost of carriage to the ship's side and of placing them on board, and this is known as the value "Free on Board". But the value declared by the importers when the goods arrive at their destination is the value at that point, namely the original cost of the goods when they were placed

Customs valuations. on board, plus freight, insurance, and any other charges incurred on the voyage, i.e. "Cost, Insurance, and Freight".

The amount of these freight services in the course of the world's trade of a year is very large; before the War Great Britain's share was probably £100,000,000.

Reference has been made to the charges incurred for insurance of goods at sea. This recalls another class of similar payments for services rendered in connection with foreign trade. In addition to freight and insurance, goods have to be financed, sold, and paid for, and the modern complexity of this work has called into existence a whole class of traders or agents of various kinds, who look after these parts of the work for the foreign owner, and are remunerated by various forms of commission. Thus, in addition to commission agents so called, who buy and Comsell goods on commission, there are, in London especially, great numbers of financial and commercial men whose business is the handling of foreign trade in one way or another. The payment for exports and imports, for example, is usually made by a foreign bill of exchange, which passes through the hands of several bankers or bill brokers, for acceptance, discount, or collection. All these different agencies are remunerated by a small commission or profit on the transaction. Again, London does a very large Stock Exchange business, especially in international securities (which are themselves, at times, an important factor in the balancing of international indebtedness), and in the flotation of loans, government or private, for foreign countries as well as the British Colonies, and all this involves the payment to London stockbrokers and financial houses of commissions, which aggregate a large amount in the course of a vear.

With regard to marine insurance, a very considerable share Marine of the whole world's business, including insurance both of hulls and cargoes, is done in, or through, London; for though a ship may be "underwritten", as it is called, in Hamburg or Genoa, or in New York, the risk is in most cases at least partially

See Mechanism of Exchange for recent figures.

Fire insurance transferred by reinsurance to a London underwriter, and this means a premium payable by Germany, Italy, or America to London. Again, fire insurance business from all the world tends to gravitate to London, where most of the large companies have their head offices, with the result that London generally holds the largest interest in any loss, either marine or fire, that may take place in any part of the world.

All these items are in themselves comparatively small, but so widespread are the financial interests of London that the total amount payable in a year is very large indeed, and under this heading it was estimated that London earned probably at least \$20,000,000 per annum before the War.

In connection with the shipping industry there is another item which does at times involve a claim by Great Britain Sale of ships, against foreign countries, namely the sale of British ships at sea to foreign owners. Not only does Great Britain build new ships for all the world, but British shipowners frequently sell their older vessels to foreign owners, building new ships to take their places. If such a sale takes place while the ship is in a British port, the transfer is duly recorded in the British shipping register and the consideration is included in the customs returns. But if a British ship is sold to foreign owners while on the high seas or in a foreign port, there is no such record of the sale: and the effect is to create a considerable indebtedness by foreign countries to Great Britain. It is, however, impossible to place any reliable estimate on the amount of this claim, which. of course, varies greatly from time to time; it will probably be much smaller in future owing to the introduction of government control of such sales in 1939.

Again, another item which may seem trifling but is of considerable importance to certain countries, is the amount expended by tourists, either in the country by foreigners, or by that country's subjects in foreign countries. Under this heading, for example, countries like Egypt, Italy, and Switzerland are creditors of all the world to a considerable extent, while the United States at the other extreme is heavily debtor. In our

Boarding expenses. own case, the claim probably balances itself, as we usually have a sufficient number of visitors from foreign countries to set against what we owe to others for the entertainment of our travellers.

But the largest single item of invisible international in-Interdebtedness is due to the flotation and repayment of foreign national borrowing, debts, both interest and capital. On this point the world may be roughly divided into two great classes, debtor countries and creditor countries, namely those which from the point of view of industrial progress are young and requiring capital for their development, and those older-established industrial countries like England which provide the means for that development, and the necessary capital to finance it. Thus, for example India, Egypt, Australia and New Zealand, the United States, and the Argentine Republic have at various periods, say since the middle of the nineteenth century, received from England large sums of capital for railway development, harbour construction, irrigation works, and all kinds of productive expenditure, as well as for public works of a less directly productive character such as public buildings or armaments: and the amount of these advances is now represented by national or private debts of all kinds, such as government stocks and bonds, railway and land companies' shares, and all the other forms of public and private indebtedness. The method and the effect of the Double creation of these huge items in the balance sheet of nations are of a double character. When in the first place a loan is raised in London, say for the construction of an Argentine railway, the amount of the loan is not exported in boxes of gold to the borrowing country. As a matter of fact the bulk A new loan. of the money never leaves England, but is simply placed to the credit of the foreign government or company in the books of a London bank, from which it is almost immediately paid out again in the form of cheques to the engineers or bridge builders who have already supplied the goods for which the loan was intended to pay. Thus the loan is given in the form of goods which appear in the customs returns of the exports of

the lending country, and go to swell the statistics of exports for that year, without any corresponding entry of imports in payment therefor. There is, therefore, for the time being an apparent excess of exports by the lending country, and a corresponding excess of imports by the borrowing country. But in subsequent years interest will require to be paid on the loan, and at some future date it must be repaid either in a lump sum or by instalments spread over a period of years, and this repayment, whether of interest or capital, can only be made in the form of goods. Thus the effect upon the borrowing country's balance of trade is to create in the year when the loan is raised, an apparent excess of imports which is balanced by the invisible export of the debt in the form of the loan certificates. But in future years the borrowing country's exports must be in excess of its imports, to an amount sufficient to meet the interest charges on the debt, which thus becomes an invisible import (of interest coupons) to that amount. when the loan comes to be repaid, this also will tend to swell the exports of the debtor country for that year.

charges and repayment.

Effect on balance of trade.

The general effect is that, if we find the customs returns of any country showing an apparent excess of exports, we are fairly safe in believing that that country is a debtor country, And if, as frequently happens, we find a country which we know to be largely in debt actually reducing its normal excess of exports, and even running up for the time an excess of imports, it simply means that that country, instead of living within its income as it were, and duly paying its debt charges, is actually incurring further debt.

In this matter of international indebtedness, England of course occupied before the War a unique position. Her industrial development being more than half a century in advance of all the world enabled her to become the world's creditor, while at the same time it provided the inducement to every other country to borrow from her. Her manufactures quickly found their way to every country, while British emigrants began to spread over the globe, and wherever they went, they saw

England's investments.

opportunities for development which only required capital to convert them into wealth. Thus British capital led the way in the development of the resources of the new worlds, with the result that there is now hardly a country in the world in which British interests are not engaged. In the latter half of the nineteenth century other European countries began to follow suit, and the scramble for colonies was nothing more than the visible effect of their desire to share in the development of the unexploited resources of the world.

The result was that England became the creditor of all the Her world to the extent of some thousands of millions sterling, and was continually receiving payment of interest and repayments of principal under old loans and still making new loans all the time. It was estimated that under this head England was receiving before the War probably over £120,000,000 per annum.

It remains now to sum up the result of all these various The balance elements which go to make up the balance sheet of Great Britain's various accounts. Indeed, the idea of a balance sheet is perhaps the best way to bring out the whole situation, for it gets rid of the confusion of mind due to the apparent distinction between visible and invisible imports or exports. Visible and invisible imports alike go to the debit side of the account, while the exports visible and invisible appear together on the credit side, and the result, based on the figures of 1912-13, was something like the following:

Dr.			Cr.		
	£ Millions.		£ Mill	ions.	
Total imports .	say	750	Exports, home produce . say	500	
Tourists abroad .		10	Re-exports, foreign & colonial .	110	
New loans abroad		200	Freight	100	
			Interest on loans abroad	120	
			Repayment of loans	100	
			Commissions	20	
			Tourists	10	
		£960		£960	

It will be seen that the final result of all these items of our

Not living on capital.

foreign trade was to bring out the fact that instead of England importing more than she exported, which had frequently been misrepresented as showing that we were living on our capital, she had all along been living so far within her income that she had a steady annual balance which enabled her to continue making new loans out of her annual surplus. The figures of the balance sheet have, of course, changed greatly since the War, but these post-war developments are dealt with in the Mechanism of Exchange.

One more point remains to be explained. While the total exports and imports of each country must on the whole balance each other from year to year, it does not at all follow that the exports and imports passing between any particular pair of countries will balance each other, even taking into account the invisible exports and imports. The truth is that trade between nations is not conducted in pairs, but that the circle of exchange is world-wide. England may export manufactured articles to a country from which she imports relatively little, but she takes payment of that excess from another country which owes her nothing, but which is debtor to England's debtor.

Triangular trade.

> It may seem rather surprising that during recent years it should have taken so much argument to carry conviction to some minds of the truth of this law of the Balance of Trade. There is perhaps an explanation of this difficulty in the fact that the word "balance" itself contains a double meaning which is confusing, because in popular use the word means either of two things which are the direct negative of each other. To say that an account balances, means that both sides are equal in amount; but if one side is greater than the other we speak of the balance, meaning the excess, being on that side. When therefore we speak of a balance of imports we mean something entirely different from the balance of trade. To avoid this play upon words, it is better not to use the phrase "balance" of exports or imports at all, but to speak only of an excess of imports or exports, reserving the word "balance" for use in its true meaning of equilibrium or equality of exports

and imports. This distinction in the use of the terms represents the historical development of the theory of international trade, from the time of the Mercantilists who first used the phrase "a favourable balance of trade" as meaning an excess of exports. Their theory has been abandoned, and it would have saved a great deal of confusion of thought if we could have abandoned their terms entirely and spoken only of the equilibrium of foreign trade, and the excess of exports or imports.



CHAPTER XVII

AGAINST COMPETITION

Economic nationalism—Protection—Import duties and quotas—Export subsidies-Trade agreements-Subsidies to home industries-Restriction of production—Marketing Boards—Finance—Transport, rail v. road traffic -What is left of competition?

THERE can be little doubt that the prime cause of the wave of government interference with industry which has spread over the world in the last twenty years was the growth of the idea of economic nationalism which was the counterpart of Economic the development of political nationalism after the War. Every nation seemed to be set on the idea of developing every possible industry within its own area, of keeping all its own trade to itself and of keeping out competition in every possible way. A typical illustration was the efforts made by many nations which had hitherto owned very little shipping to develop a mercantile marine of their own and, in order to support it, to ensure that all possible traffic from their own country, especially emigrant traffic, should use their own lines. The flow of emigrant traffic as a whole, however, was very seriously restricted by the quota restrictions first adopted in 1921 in America, which were quickly copied by other countries.

The main result of economic nationalism was, of course, the development of protection, even in those countries like our own which had hitherto been more or less free trade countries. Protection. At first this took the form of import tariffs but in recent years these have been supplemented by import quotas. When the effect of all these in the strangulation of international trade

was realised efforts were made to counter this by bi-lateral trade agreements between different countries, e.g. the Anglo-American trade agreement, which have taken the place of the old idea that international trade must be multi-lateral.

Subsidies.

The other side of import tariffs is export subsidies which have been very largely employed by Germany. In this country the nearest approach we have had to that is probably the special arrangements made to encourage the export of coal.

The development of subsidies to home industries began in this country in 1925 with the beet sugar subsidy which has since been extended to many other forms of agriculture, e.g. wheat, barley, livestock, etc., apart from the Marketing Boards referred to later. The Forestry Commission established in 1920 is a parallel case of direct state action.

Shipping.

From 1935 to 1937 we also had a special subsidy for tramp shipping and in 1939 this was renewed for five years with minor grants to other forms of shipping. There was considerable agitation in favour of shipping subsidies for passenger liners also, of which before then the only case was a special subsidy to the Cunard Line for the building of the Queen Mary and Queen Elizabeth. Housing subsidies have, of course, played a large part in the development of domestic building to fill the gaps created by the suspension of building during the War and the continued reduction of domestic building after the War which was one of the consequences of rent control. Apart from building by local authorities, subsidies to private enterprise played a large part in the supply of houses between 1923 and 1930. Rent control itself still continued partially in force in 1939, though it had been substantially modified every time it came up for re-enactment. The Town and Country Planning Act of 1932 and the Ribbon Development Act of 1937 were the latest additions to legislation on that subject.

Housing.

While on the one hand subsidies were being given to assist production in certain cases, government control was more frequently directed towards the restriction of production in order to maintain prices. The post-war coffee valorisation

scheme in Brazil which dates from 1925 may be regarded as Restricting the first of these, for it descended from a series of previous production. holding schemes which dated back to 1906. The tragedy of it was that after 1931 it resulted in the burning of many millions of bags of coffee in the attempt to keep up the price. The attempt to maintain a fixed price was, however, abandoned in 1937. The control of cotton production in Egypt dates back to 1921, and it was not till 1933 that the Government finally got rid of the last of their stocks. But most of the restriction schemes were brought into force after the great collapse of prices which followed the Wall Street crash of 1929. Thus cotton restriction in America actually began in 1930 and it was still in full force in 1939. Attempts to extend this to a world control were made by Egypt in 1931 and by America in 1939 but without success. 1 The control of the world's sugar crop came into force in 1937, and an international wheat agreement was formed in 1933 but broke down in 1935 and was again mooted in 1938. Tea growing was brought under international control in 1933. Restriction schemes have been in force for tin since 1931 and for rubber since 1934 following the breakdown of a previous scheme.

In the case of steel the method adopted has, generally Steel speaking, been that of cartelisation led by the German and other Continental industries with which the British industry has been in agreement since 1935, and assisted by tariffs. The American industry, however, is not a party to the steel Cartel. The producers of aluminium, nickel, lead and cobalt have also devised schemes the avowed object of which is to keep supplies in a certain relation to demand, thereby stabilising prices at profitable levels. In copper there has been since 1935 an agreement among the low cost producers outside the U.S.A. to restrict production so as to prevent prices falling back again to the very low levels after 1929.

The coal industry has always been a source of trouble, especially as to the relations between masters and men which came to a head in the great strike of 1926. Long before that,

¹ Up to the date of going to press.

Coal.

however, the Royal Commission of 1919 had recommended national ownership at least of the coal if not of the industry, but even the nationalisation of the royalties did not reach legislative achievement until the Act of 1938. In the meantime attempts had been made towards the reorganisation of the British industry and particularly of the selling arrangements in the Acts of 1930, 1936 and 1938, with the result that production, sales and prices, as well as wages, are now all under control. There have been frequent attempts since 1931 to secure international control of coal exports and in 1939 Germany was brought into this scheme. There is also an International Coke Convention dating from 1937.

Marketing Boards.

In addition to the subsidies already mentioned, Marketing Boards have been set up in this country under the Agricultural Marketing Acts, 1931 and 1933, for hops, milk, potatoes, pigs and bacon and fruit, these schemes being in most cases assisted to a greater or less degree by government subsidies and the imposition of tariffs. Their chief object has been the fixing of prices for the benefit of the producers, the interests of the consumers being very inadequately protected. There is also a Herring Industry Board set up under an Act of 1935, amended in 1938.

Of other price-fixing schemes the Lancashire cotton trade may be taken as an illustration. Many attempts to fix yarn Price fixing. prices by voluntary agreement in different sections of the trade proved only partially successful, but legislative aid was called in to set up the Redundant Spindles Board in 1936, and in the spring of 1939 the Enabling Bill to reinforce price-fixing agreements by making them compulsory on the minority was introduced into Parliament.

> Turning to more general financial conditions affecting all industries, government action began in 1931 with the restriction on foreign loans, the motive of which was partly to prevent undue strain on the rate of exchange but also to reserve the home capital market for government borrowing so that the Treasury might obtain their requirements as cheaply as possible.

This has, of course, become all the more necessary since borrow- Foreign ing for rearmament began in 1937. With the same motive the Government, through the Bank of England, has in recent years practically controlled new domestic issues such as municipal loans. In 1939 the control of foreign investments was considerably extended and tightened up, and about the same time the British Government began to follow the French Government's earlier policy of making foreign loans in accordance with their political and commercial aims in Europe and elsewhere.

中の一大の一人は一大の人という。 かんかい あんかい かんかい かんしゅう

Control of the exchanges by Exchange Equalisation Funds, first established in this country in 1932, has not been enough Closed for many countries which have had to resort to much more stringent exchange control including Clearing Agreements in which the whole international trade of the country is controlled in view of their requirements of foreign exchange. Germany, Italy, and Japan are of course the most extreme cases of such "closed economies".

The amalgamation of the Railway Companies into the Big Four in 1921 proved insufficient to save their financial position. especially in view of the development of road transport, and this resulted in the setting up of the Road Traffic Commissioners with licensing powers both for public passenger vehicles and since 1934 also for goods traffic. For the Metropolis the London Passenger Transport Board (1933) provided a new system of public utility control but the North of Ireland Transport Transport. Board (1936) carried matters a stage further towards nationalisation of the industry. Civil Aviation has of course been heavily subsidised in this country since the War and was practically taken over by the state in 1939. The control of the film industry by the quota system dates from 1928 but was reorganised in 1038.

One might be excused for thinking from this long catalogue of government action and organised producers' control of different trades that there was nothing left of the free competitive enterprise which was the fundamental characteristic of our system as described in the early chapters.

Effects of

however, would be to exaggerate the scope and effect of all that has been done in these directions. In the first place. there are still a great many industries which are entirely untouched by control of any kind either by government or by producers' combines. Further, in most of the cases described the control applies only to the raw material, and the manufacturing side of the industry is not touched, nor the selling side. Even in those cases like milk, where the control is most complete, it applies mainly to prices and the consumers are still left free to choose their own source of supply, whether wholesale or retail. Again, in those cases where the government action takes the form of a subsidy, the consumers do not suffer directly but the loss is spread over the whole of the taxpayers. It would, however, be difficult to find a case where the benefit of the subsidy has been passed on to the consumer.

XI, the monopolist is not free, even in his own interest, to charge whatever price he likes to the consumer, and up till 1939 it could be said that the prices of most of the controlled commodities had rather been prevented from falling than forced up to unnatural levels. Tin and steel were probably the chief Exceptional exceptions. The price of tin had been maintained at a level which is said to be about double the cost of production, while steel prices, which were maintained with very little change all through the depression, have since been raised, partly as

the result of the demand for armaments, to levels which have

Again, it must be remembered that, as described in Chapter

reacted very seriously on other steel-using industries like

shipbuilding.

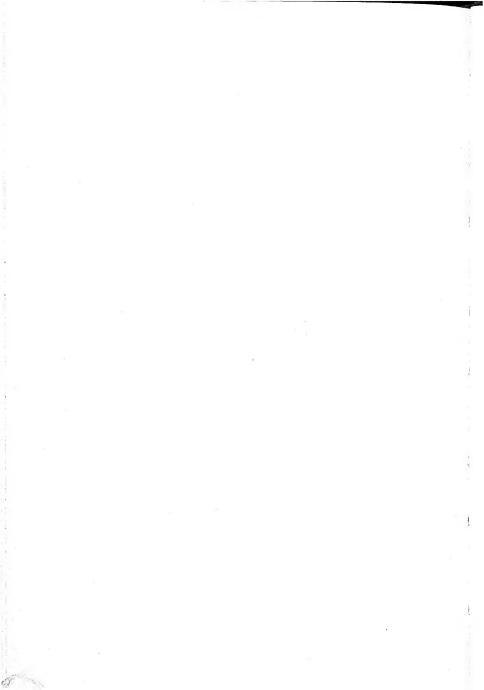
But this comparatively moderate attitude on the part of the protected industries has been largely due to the fact that, except for a brief period in 1937, the general level of world prices has continued at a fairly low level; but that brief period was sufficient to show in certain cases what might happen if there was a change in the present trend involving a general rise of prices. The fact that prices have not risen very much, especially in the case of food prices as a whole as shown by the

rises.

annual reports of the Food Council (1925), has been largely responsible for the marked absence of any really serious volume of complaint from the consumers against the results of all this system of restricted production and controlled prices. Until Will the prices begin to rise seriously we can hardly hope for any sub-revolt? stantial revolt by the consumers against the new tendency to disregard their interests as against those of the producers.

But the fact remains that, in spite of all this control of production and prices, very little of which deserves to be dignified by the name of "Economic Planning", by far the greater part of our economic life is still ruled by the old principles of free competitive enterprise and the principles of free competition are still the major influence in the fixing of prices.

P.S.—The statement on page 199 that international trade is not between nations but is conducted almost entirely by the individual traders of the different nations requires modification in view of the numerous recent cases of direct barter between governments, especially those working under a closer economy as mentioned on page 223. This was brought home to us by the proposal which came to a head in June 1939, after the proofs had been passed for the press, for the direct barter of 600,000 bales of cotton from the United States (out of the stocks Internaccumulated under a government loan) to the British Governbarrer. ment in exchange for rubber from the British Empire to an equal value. The object of this transaction, however, was to set up a war reserve of cotton in England as had already been authorised for wheat and certain other commodities, and it was to be carried through at market prices. But at the same time the American Government was proposing to pay an export subsidy on cotton.



APPENDIX

AN OUTLINE OF HISTORY

Growth of free industry and enterprise-Social reform by legislation-History of exchange-Modern British Economists.

THE earliest forms of human civilisation had their origin in those countries Earliest where nature is so lavish in her fruits that even the slightest efforts of man civilisations. yield a surplus over his wants. Such a surplus is necessary to progress, because if, as in a cold climate, it takes men all their time and energy to wrest a bare living from the soil, they have nothing to spare for the development of any higher desires, nor have they the means of gratifying them. Thus the earliest known civilisations—those of Egypt and Babylonia—are found in the valleys of great rivers in fertile lands under a warm climate, where life is easily sustained with the least expenditure of labour.

In such early civilisations there is one striking common feature, that in Rulers and almost every case the inhabitants consisted of two classes, a governing class ruled. and a governed, the latter forming the bulk of the inhabitants. In almost all cases the governing class were incomers from some other country, generally a hardier race from a colder climate, who had come down upon the richer land and made it their own by conquest. History, however, does not stop with one conquest. The conquering races became softened and weakened by their easier life, and in their turn they fell a prey to some other strong race.

The most interesting feature of the industrial organisation of Ancient Egyptian Egypt was that there existed a complete system of classes or grades of industry guilds. the line of distinction between which was clearly marked and well maintained. Each trade had its own quarter in the town; sons usually followed the same trade as their father, and the rank of every man depended on his occupation. These trade divisions were, therefore, in some respects like the caste system in India; there was nothing in them of the nature of free industry in the modern sense. Public works were mainly carried out by the corvée or forced labour when purely slave labour was not available. Even the agricultural and artisan classes, who were nominally free men, could not generally escape

the corvée. The whole revenues of the country, in goods or services, went to satisfy the needs or to minister to the glory of the pharaoh, as in the case of the pyramids, which were royal tombs.

Greek industries. Through the long succession of conquests in Babylonia and Egypt, and passing over the little-known Minoan civilisation in Crete, we come down to the time of the Greeks, who were in some respects the pioneers of modern conditions, though they undoubtedly learned much from their contact with Egypt. With the possible exception of the Phœnicians, they were the greatest traders the world had yet seen, and they introduced the use of metallic coinage, but their own industries were of no great importance, and were looked upon as beneath the dignity of the best citizens.

Rome still despised industry. From Greece to Rome marks a great step in advance. The Roman Empire was unlike any of its predecessors in many respects. Its industries were of great importance, its foreign trade enormous, its coinage system wide-spreading as the empire itself, and, considering the times, a marvel of consistency and simplicity. Their system of jurisprudence is to this day the foundation and the model of the legal systems of all Western Europe, while its direct effect on economic conditions was almost incalculable. But the one great difference, that industry was still largely the work of slaves, marks even Roman economics as a thing apart from modern conditions.

Rome in its turn fell before the invasion of the northern tribes, and what remained of its wonderful civilisation found refuge on the eastern shores of the Mediterranean, whence it returned later on to flourish again in Venice and the free cities of Italy. In the interval Europe lay under the cloud of the Dark Ages, all the culture and civilisation of Rome apparently lost, and her systems of trade and manufactures sunk in the warlike constitutions of the feudal states. Through these dark days, however, another force was working towards economic freedom; the Christian idea of the dignity of labour was slowly gaining ground. The Church, with its little colonies scattered over the face of the western world, formed the connecting link between different countries, and at the same time preserved within the monasteries much of the skill of the craftsman, the beauty of art, and the wisdom of science which might otherwise have been entirely lost to the world.

Christianity and the dignity of labour.

Free cities.

The next step in economic progress is the development of the free cities in mediæval Europe, with their trade guilds, the first germ of modern economic associations; but they also fell a prey to a stronger hand—the growing power of the nation as against the city.

Renaissance.

The next great epoch is the Renaissance in the fifteenth century, when, with the discovery of the new world, the revival of learning, the Protestant Reformation, and the discovery of printing, the progress of the world seemed for a time to be by leaps and bounds. In the great scramble for the wealth laid open to the old world by the discovery of the new, Spain and Portugal had at first the lion's share, but their prosperity again proved their ruin, and soon they had to give place to hardier nations, Holland, France, and England.

The story of Holland in this chapter of the world's history is one of great courage and marvellous achievements; but her small area and unprotected position from landward attacks compelled her ultimately to leave the battle to be fought out between France and England. The struggle was long and costly, but at last, about 1760, the simultaneous victories of England on the Continent, in India, and in Canada compelled France to make peace, and gave the supremacy of the sea to England.

begun to show signs of development and expansion. The natural enterprise lead in modern and energy of the inhabitants found equally ready scope in home industry industry. and in foreign adventure. At the same time, the influx, under religious persecution, of many trained artisans from continental countries had provided her with skilled masters, and she was quick to learn. The year 1760, therefore, marks the commencement of a new period in the world's history, a period of peace, when the world had time to breathe a little after the exhausting struggle of continual warfare, and to turn her attention for a little to the arts of peace. In the period of industrial activity which then began England was the acknowledged leader. The quarter of a century that followed that date was one of absolutely unprecedented activity in the world of industry. The steam engine and the new machinery for spinning and weaving may be quoted as instances of inventions that contained the

germ of enormous modern industries, while within that period new processes were discovered in every trade, new methods of cheapening and increasing

of the modern industrial system. It has undoubtedly led to great misery, never more so than in its earliest years, but at that time it was peculiarly

She was not slow to take advantage of it. Already her industries had England's

production. The outstanding result of all this activity was the rise of the Factory factory system, which, for good or for evil, has become a permanent feature system.

unfortunate, for its rise coincided with one of the worst periods that the country has ever passed through. An unprecedented series of bad harvests made bread dear; the loss of England's American colonies, and the terrible drain of men and money to carry on the wars with Napoleon, were a tremendous strain on the national resources, while a bad system of Poor Law administration was undermining the character and independence of the people. All these tended greatly to exaggerate the evils that necessarily accompanied the new era of free competition, so that it is hard to say how far these evils were really due to the factory system. On the other hand, it may fairly be argued that, had it not been for the apparently unlimited staying power which Great Britain derived from her industries, she could never have successfully opposed the armies of Napoleon.

Once rid of that danger, however, attention was turned to the remedying of these evils. The obvious causes were the restrictions of every kind on the liberty of enterprise and industry, the movements of trade, and the means of supplying the needs of the working classes. The foreign trade of the world was still under the influence of what was known as the mercantile system, a policy developed at the time when the trade of the new world Mercantilism. was first thrown open to Europe. The idea of the mercantilists was that the object of foreign trade was to encourage exports which would bring back bullion, and to discourage the import of anything which had to be paid for in bullion. The growth of this policy was in a way the result of the previous financial history of the world. It grew out of a period when the world's stock of the precious metals was rapidly decreasing, because there was no new supply, when every nation was struggling to attract to itself as much gold and silver as possible, and when that could only be done by drawing them out of other countries. The result of this policy was the adoption of a system of restrictions on trade, which in its effect was the same as the system now known as protection, although it sprang from an entirely different idea.

At the same time industry at home was hedged in by restrictions of every kind and on every hand. Food was dear because of the duties on imports. The apprenticeship system interfered with the liberty of choosing a trade. The Poor Laws prevented the migration of labour from one district to another, and the Combination Laws prevented any attempt by the working classes to better their position by uniting against the employers. The whole force of the agitation for reform was therefore directed against these restrictions and in favour of liberty. The struggle may be said to have ended, in England, with the abolition of the laws against combination and the repeal of the Corn Laws.

Fight for freedom.

SOCIAL REFORM BY LEGISLATION

The new regulation.

But even before the triumph of liberty had been secured a reaction set in. Men began to realise that, with no check on bad masters, the workmen were ill-treated and poorly paid, and that in the interests of the public it was necessary to introduce some measure of protection for the weaker members of the community. Thus there was from the beginning of the nineteenth century a tendency to revert to limited legislative control, the idea being to protect the weak as far as possible from the evils of unrestrained competition, while at the same time placing as little restriction as possible on free individual enterprise.

A new kind of regulation. All through the history of factory legislation, therefore, one is struck by the apparent willingness of the reformers to limit their proposals to the merest fringes of the question; until our own time no attempt was made to touch by legislation the wages or hours of employment of adult male workers. All that they did was to work round the subject, stopping the employment of women or children during unsuitable hours, as at night, or in unhealthy or dangerous trades, as in the case of boys sweeping chimneys, or under conditions so horrible as those under which women and children were employed underground in coal mines before the Act of 1843.

Modest beginnings. The first reason for this was the dread of state interference in industry, which was the legacy of Adam Smith's fight for freedom; but another reason was the ignorance of the general public of the conditions under which industry

was being carried on in the new districts of the North; the people of Southern England had no more knowledge of the conditions of life of the workers in the North than they have to-day of the conditions of life among the cotton growers of the southern states of America. The result was that there was No public no public conscience in the matter, and it took a long period of propaganda conscience, and education of the public to what was actually going on in the new industrial areas before parliament could be forced to take action. Finally, there was another practical reason for the slowness of reform. The conditions of industrial life were not merely new in themselves; they were new in their surroundings. The conditions in the small factories driven by water-power Ignorance in remote country districts were tolerable just because they were in the conditions, country. If hours were long at times, they were irregular, because the water-power was irregular, and at other times the workers had plenty of time to work their small crofts and to live in the open air. If the factory conditions were dusty and dirty, there was at least clean fresh air outside; and finally, if sanitary provisions were non-existent, that did not matter much in the country. But when the application of steam-power to industry led to concentration of many factories in one neighbourhood, which soon became a large town, the evils of the factory system were intensified; the conditions which were bad enough in the country became utterly intolerable in town, and there was no public authority whose business it was to enforce No regulations, if any such had existed. There was nothing but the old county authorities. and parish organisation of the Justices of the Peace, whose powers were confined to the barest functions, mainly of civil and criminal justice. Thus the early reformers had not only to get acts passed by parliament; they had then to create an authority to apply these acts, and a system of inspection to see that they were applied.

The first Factory Act of 1802 dealt only with the conditions under which Early cotton Poor Law orphans were "apprenticed" to the cotton factory employers. Even when the 1819 Act introduced the first restriction of the hours of employment of children under sixteen it was only to twelve hours daily and it only applied to the cotton trade. Gradually the hours were reduced, the protection extended to women and young persons up to eighteen, and other textile trades included. In course of time the idea was extended to other trades such as the coal mines, where the conditions of employment of women and children were such as would not be tolerated now for pit ponies. Indeed. nothing but a perusal of some of the reports of the early commissions on these subjects will convince the present generation that these things ever were true in England. What is most difficult to understand is that most of the employers believed that there was really very little wrong with the conditions, that sixteen hours' work a day was good for young children because it taught them habits of industry and kept them from getting into mischief; and in this they were frequently supported by the parents themselves!1 Gradually, however, the idea prevailed that a minimum provision of safety ¹ See Lord Shaftesbury, by J. L. & Barbara Hammond (Penguin).

Dangerous trades

and decency must be secured in every trade. The idea that certain trades were particularly dangerous to the operatives was extended in various directions. Ouarries and explosive factories, fur pulling which developed consumption, the making of phosphorus matches which produced "phossy jaw", white lead poisoning in the pottery trades, etc.-in course of time all these have been regulated so that the worst evils of the old days have practically disappeared. Merchant shipping received attention as the result of the exposures of "coffin ships" by Samuel Plimsoll, whose name has ever since been associated with the mark below which a ship may not be submerged, for the safety of the crew. A modest standard of precautions for the prevention of accidents in general by the fencing of machinery was enforced in all trades, and a certain minimum provision of sanitation, ventilation, etc.

Hours of labour.

As already stated, the provisions of the early Factory Acts with regard to hours of labour only applied to children and then to women, but by 1847 a stage was reached when, though the fight was still nominally to reduce the hours of women and children to ten per day (excluding meal hours). this had come to involve the hours of the factory as a whole, because the women and children formed so large a part of the total labour force that work could not be carried on without them. In this indirect way, therefore. the ten hours' day was enforced in most trades to which the Factory Acts applied; but the real fight over hours has been the work not of legislation but of the trade unions. The first step towards general regulation of hours was the introduction of the Factory Holidays in 1867. It was not till the Miners Act of 1908 that the principle of an eight hours' day received parlia-

day.

mentary authority.

Wages.

Up till then the only interference by parliament in regard to the fixing of wages had been certain attempts to prevent the worst forms of exploitation of the workers in regard to their wages, such as the compulsory publication of piecework rates, so that the workers might be able to check the amount actually due to them, and the appointment of checkweighers in mines. nominated by the men themselves, to check the weighing of the coal brought to the surface by which the men's wages were determined. Another great abuse was the "truck" system, under which unscrupulous employers succeeded in forcing on their workers various forms of payment in kind. such as the purchase of goods at stores run by some one connected with the factory and in which unfair prices were charged.

Trade Boards.

The first Act which dealt directly with wages was the Trade Boards Act of 1909, and it only provided for the fixing of minimum wages in certain trades which were more or less sweated industries, or in which a great deal of "home work" was still done. The next was the Miners' Minimum Wage Act of 1912, which provided a minimum wage for those who, owing to unfavourable circumstances such as a bad "working place", could not secure a living wage at the standard piecework rates. It is to be noted, however, in these two enactments how careful the promoters were

to explain that they were not touching the question of standard rates of wages; all they aimed at was to prevent the lowest grades of labour or the lowest rates of wages being depressed below the limit of a living wage.

Turning now to the general protection of the workers from the risks of Protection their occupation, especially accidents, sickness, and unemployment, the first industrial development was in regard to the employer's liability for accidents in the risks. course of their employment. The old common law on the subject is of course the same as for any other class of persons; a man cannot be made liable in damages for injury done to his neighbour unless fault on his part can be proved. In the case of employers this common law rule had been extended by the courts into what was known as the doctrine of common employment, that if the cause of the injury was not the individual fault of the master himself, but of some fellow-employee, the master was not liable. This principle was carried so far that it had come to be almost a complete barrier to any claim against an employer in a large factory and it therefore had to be legislated practically out of existence. This was done by the Employers' Liability Act of 1880, which did not affect the principle that the employer's liability rested on fault, either his own or that of some person for whom he was responsible. This act, however, proved unsatisfactory especially in regard to the amount of litigation it produced over disputed cases, and in 1897 there was passed the first Workmen's Compensation Act which completely revolutionised the law on the subject and drastically altered the fundamental relations between employer and employee. In future the liability of the employer became that of an insurer of his men Workmen's against accidents arising out of their employment whether due to the fault compensation. of the employer or not; in fact the onus was thrown entirely on the employer, who could only escape liability by proving contributory negligence on the part of the injured man.

This new development marks the first emergence of a new idea, that the Insurance, workers and the poorer classes generally must be protected against the major risks of their life, thus throwing a new burden on the employers which in effect amounted to an insurance of the men without any contribution by them to the cost of the insurance. As a matter of fact things worked out much more easily than had been expected. Insurance companies sprang up to undertake the risk at a premium, and after the necessary period of adjustment things settled down without serious injury to any one.

When the next step came to be taken, however, in this protection by Health insurance, a different principle was adopted. Under the Health Insurance and unemployment. Act of 1912 the burden of the insurance was shared between the employer, the employee, and the state. The provisions in the first Act with regard to insurance against unemployment were really experimental and only applied to certain selected trades, but they have since been extended to cover most trades, and they are now based on the same principle as health insurance, viz. that the good trades help to cover the deficit in those where unemployment is chronically heavy.

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Old age pensions.

Employ-

ment

In the meantime the same principle of social security had been extended to other classes than the workers in the form of old age pensions for all above seventy whose means fell below a very small figure, the whole burden being assumed by the state. There are also pensions at sixty-five under the Unemployment Acts. The government Employment Bureaus, established as Labour Exchanges in 1909, had at first to run the gauntlet of a great deal of criticism.

Bureaus. General social legislation.

With regard to general social legislation, education is now free and compulsory up to the elementary stage and the age of fifteen (subject to exemp-

Education and public health.

tions), with a limited provision for secondary education and still less for technical and commercial education. Closely allied with this is the provision made for free libraries, public picture-galleries, museums, and even music. indoor and outdoor. In matters of physical well-being the very name public health, like the idea which it conveys, is entirely modern. A century ago it had never been realised that the private health of the individual was any business of the public authorities; in fact, it was only the discovery of methods of preventing the spread of infectious disease, such as fevers and smallpox, by segregation as well as vaccination, that suggested the idea that for self-protection it was worth while to take care of our neighbour's health by prevention as well as cure. On the same lines, the supply of pure water, the purification of the air by smoke prevention and of the rivers by regulation of industrial and sewage pollution, are all entirely modern, as indeed is the need for them, which only arose with the development of large industries in towns. Another great series of measures for the protection of the public from exploitation or fraud was the Food and Drugs Acts, the Weights and Measures Acts, the Merchandise Marks Acts, and so on. The protection of person and property through the new police system, and the enforcement of the thousand and one duties which have been imposed upon the police in recent years, is only another illustration of the wider view now taken as to the functions of the public authorities. Finally, even before the extreme necessity caused by the War had arisen, powers had been given to municipalities to deal with housing. The provision of parks and open spaces,

Protecting the consumer.

THE HISTORY OF EXCHANGE

and the idea of town-planning, may be mentioned in the same connection.

In the early forms of civilisation when the family or the tribe was the unit of society, and these units were small and self-contained and mainly nomadic, there was practically no exchange because there was no need for it. Every member of each tribe was engaged in the same occupation, and therefore produced the same commodities as his neighbours. There was a certain amount of division of labour, especially between the sexes, and in the primitive form of the tribal craftsmen who performed certain work for all the members of the tribe in consideration of a share of their produce.

Primitive exchange. But when a chance encounter brought the tribe into contact with a friendly tribe from another country, opportunities arose for something like exchange in the modern sense of the word, because these other tribes, coming from a different district or country, would possess things which the others had not, and would greatly desire those things which to the first tribe were commonplace and therefore of little value. Thus exchange was in the first place inter-tribal or international rather than local. It probably arose from the custom of making conciliatory gifts to a possibly hostile tribe met by the way, and it came to be regarded as a matter of course that the gifts must be mutual: each tribe expected to receive a gift of at least equal value to what it had given. Gradually journeys came to be undertaken purposely with a view to the possibility of such meetings and the resulting exchanges.

With the settling down of nomadic tribes in fixed localities which marked the development of agriculture, and the growth in size of the settled communities, the division of labour became more necessary. As the size of the community increased there was enough work of a particular kind, such as the smith's or the shoemaker's, to employ one man's whole time in making such things for the community. There were also the hunters and the fighting men who went abroad, while the husbandmen remained at home to cultivate the crops. Under these conditions exchange of the different products was Division of essential, and as the village developed into the town and the town into the labour. nation, exchange became wider and more universal. Nowadays in Western countries with the development of the factory system of production by machinery hardly anybody makes a complete article with his own tools or machinery out of his own materials. Every one makes for exchange, and the complexities of exchange have increased as fast as the development of specialisation and the growth of division of labour.

While many features of this system may be deplored, it has certainly enormous advantages. The great wealth of which the modern world disposes. meaning not merely the wealth in money of certain individuals, but the widespread distribution among all classes of society of the comforts of civilisation, would have been utterly impossible in any other way. For the advantages of exchange are just those of the division of labour. Exchange Advantages is indispensable to the modern system of organisation of production to which of exchange. the enormous production of wealth is due. But in this vast system there are many producers who seem to take no active share in the production. those who merely pass things from hand to hand, middlemen as they are called slightingly, whose right to a share in the produce is sometimes questioned. It must be made clear, however, that there is no ground for this distinction. Every person who is really necessary to the process of exchange. including the finding of a consumer for the goods produced, is justly entitled to a share of the produce. The middleman is just as much a producer as the Middlemen. farmer, as long as he is necessary. Of course, a superfluous middleman who has somehow contrived to insinuate himself between the producer and the

consumer without serving any necessary purpose in bringing them together is indefensible.

The development of exchange involves three essentials: (1) the formation of a class of merchants or traders to act as middlemen between the producers and the consumers; (2) the development of the means of transport, both for long and short distances, including the carriage of commodities, like wheat or raw cotton, across half the world, as well as the door-to-door delivery of daily household supplies by a retail shop; and (3) the invention of money as a means of exchange.

The trader

As already suggested, trade was at first inter-tribal or international, that is to say it was carried on with foreigners and was frequently characterised by the methods of war rather than of peace, each party doing his best to cheat or rob the other, either in the course of bargaining or by more flagrant violence. The merchant of the early days carried his life in his hands; the risks of trade were great, and the profits had to be correspondingly high.

Another interesting feature of the evolution of trade is the change from the early trader seeking his customer to the modern system of retail shop-keeping where the customer seeks the trader. This had its effect on the character of the goods which were the objects of trade. In the early days these were naturally confined to goods of considerable value in proportion to their weight or bulk, and not of a fragile or perishable nature, so that they were capable of being carried long distances, such as brick tea carried mostly on camel-back from China by the overland route through Siberia into Persia, India, and latterly all Europe.

Their functions.

The advantages of the modern trader class may be illustrated by considering the extent to which townspeople nowadays are dependent upon the system of wholesale and retail traders for the supply of their ordinary daily food. The shopkeeper and the wholesale warehouseman form the link between the producer, perhaps in a distant country, who has neither time, opportunity. nor knowledge to seek retail customers, and the consumer who cannot seek the different producers, spread all over the world, from whom he would buy what he wants. In fact, new wants have been created by the extraordinary development of the system of supply, which brings all the products of every country in the world and puts them down almost at our doors to tempt us to buy. Taking the contents of an ordinary grocer's shop for example, it would exceed the limits of the average customer's knowledge of geography even to know where the places are from which the different goods come. Again, these wholesale traders deal in large quantities, so that they are able to buy much more cheaply than the ordinary retail customer could possibly do, because it is easier and more economical for the producer to deal with one large customer than to seek many small buyers. Lastly, the wholesale trader and the shopkeeper maintain large and varied stocks, so that the householder whenever he runs out of anything can buy at once from the shop near at hand.

The development of the available methods of transport in most Western

countries has followed a fairly regular routine, viz. first the sea or large Transport. rivers, then roads and canals, then railways. In the East, however, longdistance transit was by overland routes probably for many centuries before the sea was ever attempted, even in the case of countries like India, which had a large seaboard.

The last stage in the development of exchange is the invention of money Money v. and the breaking up of barter into sale and purchase. Barter means the Barter. direct exchange of goods for other goods, and seems to offer the simplest and most direct method of arriving at the relative value of the goods which are compared directly with each other. But even in the most primitive societies this method of exchange involves great difficulties in practice. It may be easy enough to determine the relative value of the commodities to be exchanged, but this is only half the difficulty, for before any exchange can take place three conditions must be fulfilled. In the first place, there must be two people, each of whom wishes to-dispose of the very thing that the other wants, which is a very unlikely coincidence. In the second place, the things which they desire to exchange must be of equal value; and finally, both must be desirous of making the exchange at the same time. As the result of the practical impossibility of securing this triple coincidence, it is often found that even where the custom of barter was general it had to be made trilateral instead of bilateral to make it possible at all. But all these difficulties are solved by the introduction of a universal third commodity called money as the means of exchange. Every man, instead of exchanging his goods directly for those of others, sells his goods for money with which he buys other goods of whatever kind from whatever person in whatever quantities and at whatever time he likes. Thus money breaks up the single act of barter into two separate acts of barter, one of goods for money, called sale and the other, which may be far apart in time and place from the first, of the same money for other goods, called purchase.

But although these two processes are now separated, the relation between them must not be forgotten. Every purchase implies a prior sale, and every sale points to a future purchase. The essential fact is that every man lives Double by exchanging his products or services for the products and services of others. barter. The ultimate object of production is not sale, but exchange of the product for other commodities, and the ultimate consumption of these others.

MODERN BRITISH ECONOMISTS

Turning to the history of modern economists, it is often said that the great Scottish economist Adam Smith was the father of political economy. the founder of the science; but this requires some qualification. Adam Smith was certainly the first to give the science a definite and complete form, but the credit of the first inception of the idea of freedom as the basis of economic advance lies probably with the school of French economists called the Physiocrats, because their teaching was to follow the rule of

nature. The leaders of this school were Quesnay and Turgot, and their great doctrine was expressed in the famous phrase, Laissez faire, laissez passer. Their argument was that freedom is the mainspring of all human progress, that the less government interference or restriction in matters of trade and industry the better, that if men are left alone to do what they think best for themselves the result will be the best for all, because there is a natural order or system in matters economic which works itself out best when left alone, and which always produces the best results. Economic progress, they said, is regulated by natural laws, which always work for the best, and all the troubles and difficulties of those times were due to interference with this natural order of things. There is no doubt that Adam Smith was in close communication with the Physiocrats, and his book and that of Turgot were published in the same year, 1776. But whichever may have been the originator of the idea of laissez faire-if, indeed, it was not simply adapted from some older writer—there is no doubt that Adam Smith's Wealth of Nations is the more complete expression and application of the new doctrine of economic liberty.

Wealth of Nations.

Adam Smith occupies a unique position; no writer of almost any age has exercised a greater influence over the minds of men. The Wealth of Nations, when it appeared, was heterodox to the last degree; it went against every commonly accepted idea on the subject; yet he achieved the unique feat of wholly converting public opinion, so that before his death his views were universally accepted, and had become part of the common sense of the world. So far was he in advance of his times that there is hardly any economic truth now known of which he had not at least a glimpse, hardly any economic problem of the present day on which he does not throw some light. But, above all this, he realised more than any of those who followed him for fully a century the importance of the human or personal element in Economics. "He was the first to make a careful and scientific inquiry into the manner in which value measures human motive, on the one side measuring the desires of purchasers to obtain wealth and on the other the efforts and sacrifices undergone by its producers."

Malthus.

Ricardo.

Of the immediate followers of Adam Smith in England, two may be specially mentioned, Thomas Robert Malthus (1766–1834), whose theory of population raised a storm of opposition and helped largely to gain for Economics the name of "the dismal science", and David Ricardo (1772–1823), the great feature of whose work is the theory of rent, which still bears his name.

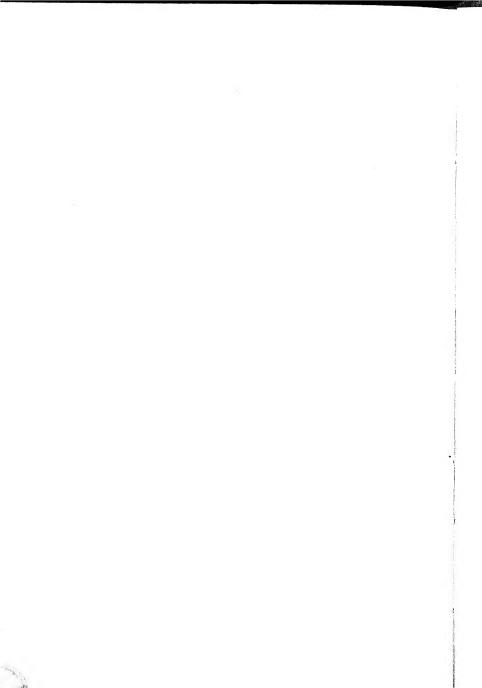
Mill.

The next notable writer is John Stuart Mill (1806–1873), the last of the great economists of the classical school, which began with Adam Smith and the Physiocrats. His work marks a curious epoch in the history of political economy, when men thought that it had attained the unique position of a complete science. The success achieved by the doctrines of free trade in England, and the undoubted accession of prosperity that followed it, had

1 Marshall, Principles, Appendix B, § 3.

prepared the way for such a masterly exposition of the subject as that of Mill; but the reaction against this self-complacent attitude came so swiftly Mill. that Mill himself lived to see and share in it.

Last comes the name of the greatest English economist of modern times, Marshall. Alfred Marshall, who, like Adam Smith, gathered together all that was best in the work of his predecessors and contemporaries, and added to it much of his own of great value. A special feature of his work is the manner in which he returned to Adam Smith's idea of Economics as not the science of wealth for its own sake, but the science of the motives which actuate men in the acquisition and use of wealth, and therefore essentially a human science.



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